

KINGSVILLE DOME URANIUM MINE AREA DATA AND ANALYSIS (A Work in Progress)

April 10, 2013 QUESTIONS



**EPA, Region 6
Dallas, Texas**

José Eduardo Torres
Petroleum Engineer
Chemical Engineer

Questions on:

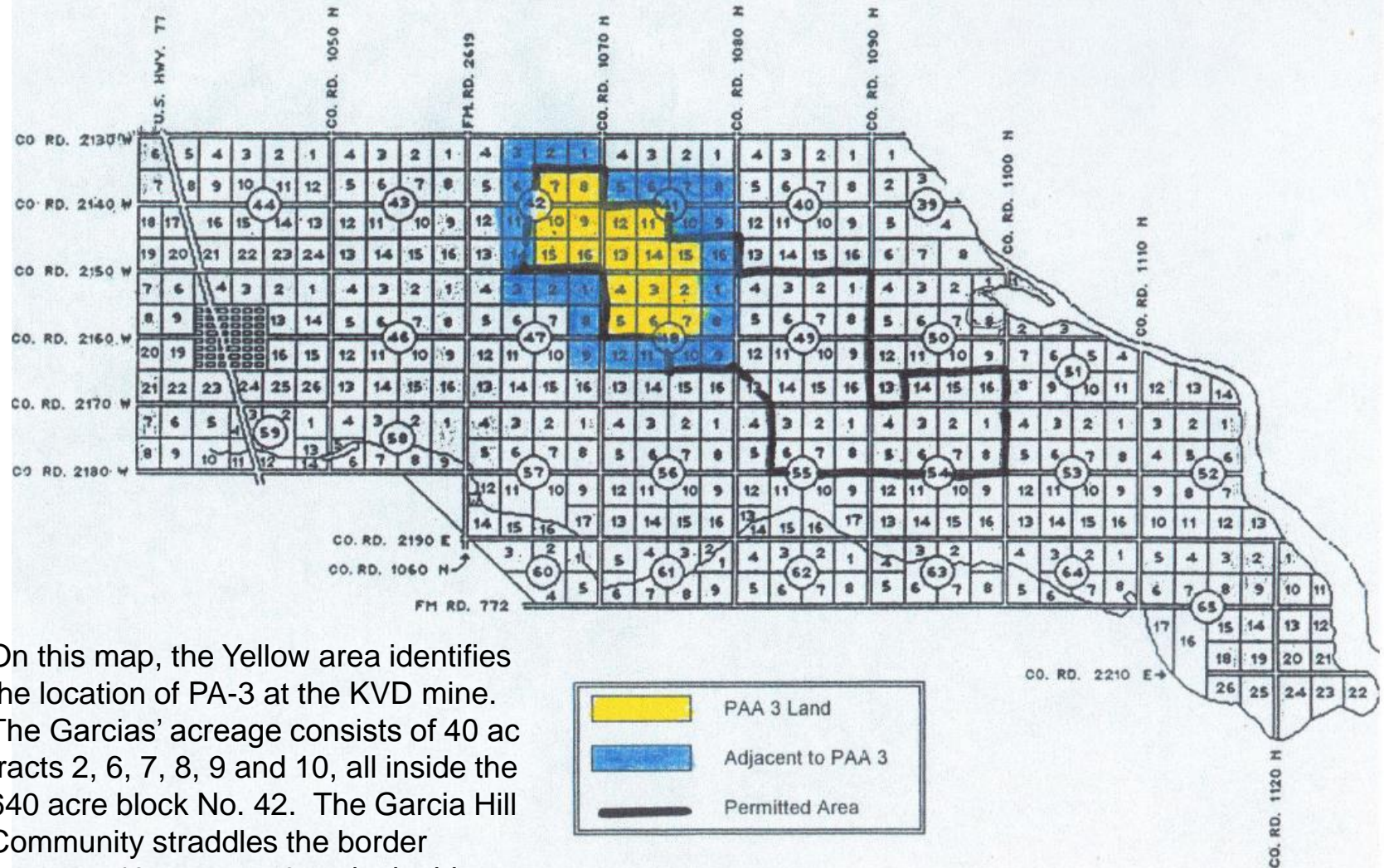
Surface Locations
Well Identification



EPA, Region 6
Dallas, Texas

KLEBERG TOWN & IMPROVEMENT COMPANY

(SOUTH PART)





Garcia Hill WW-20's Wellhead as seen on July 16, 2012



The Garcia Hill Community's water storage tank. The irregular concrete slab marks the location of the Original GH water supply well, the original W-24, drilled in 1941 by Mr. Jorge Peña Garcia.



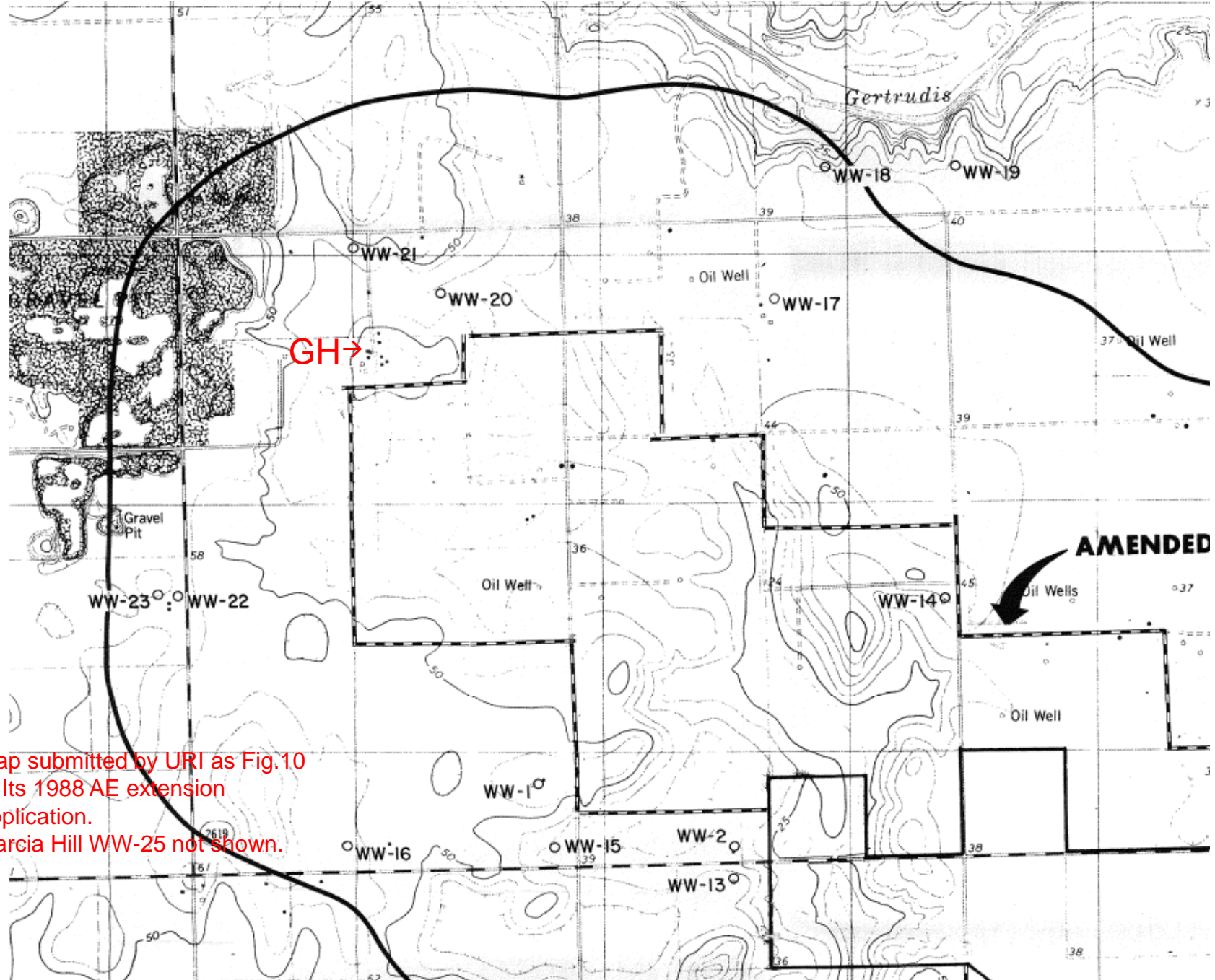
Top view of the irregular concrete slab marking the location of the original GH W-24. The well had a TD of "700 To 800" Ft, per the Garcia family. It was P&A'd in 1989 at the time URI drilled the replacement W-24.



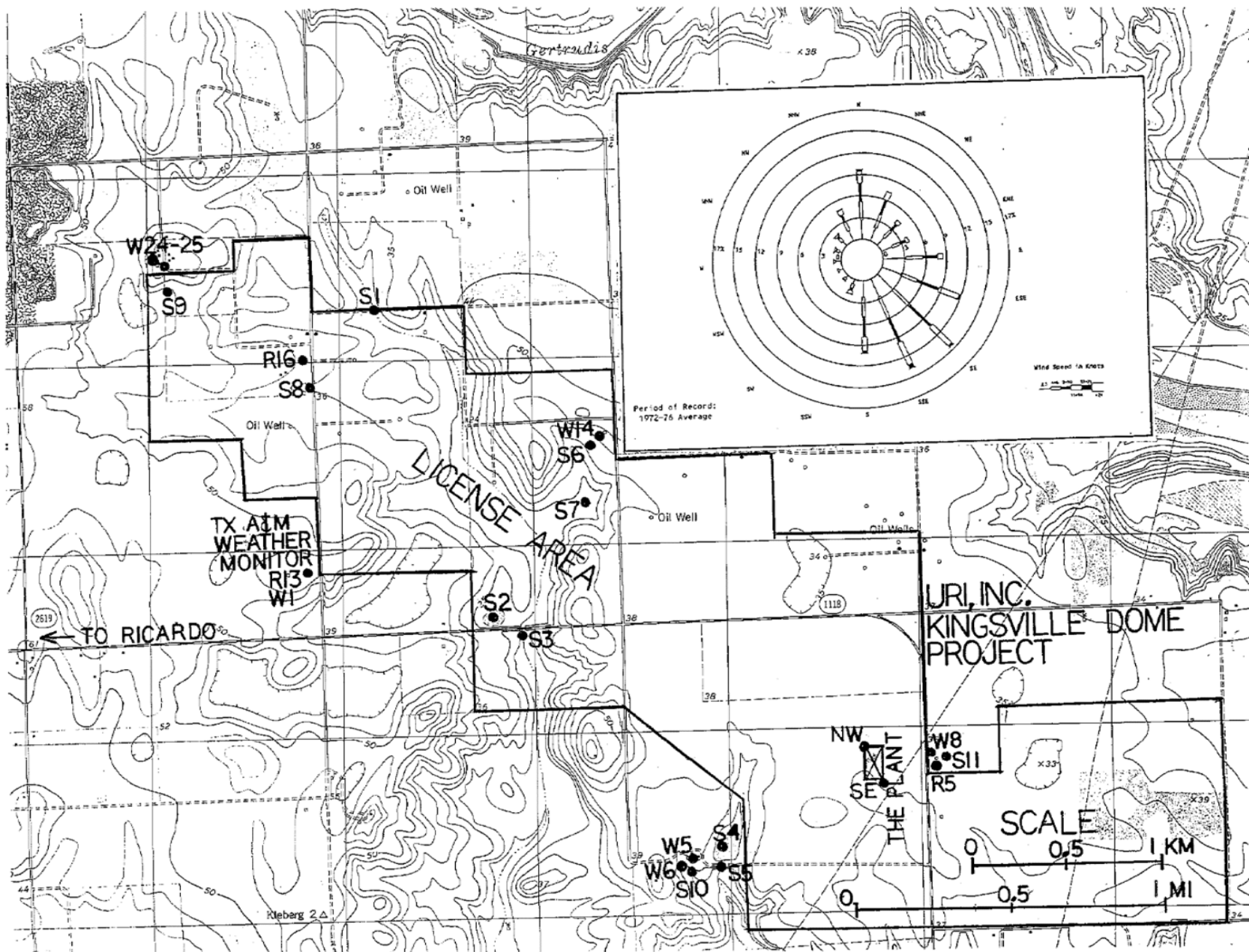
Replacement Garcia Hill Well WW-24 and Ground Water Production Gathering Station



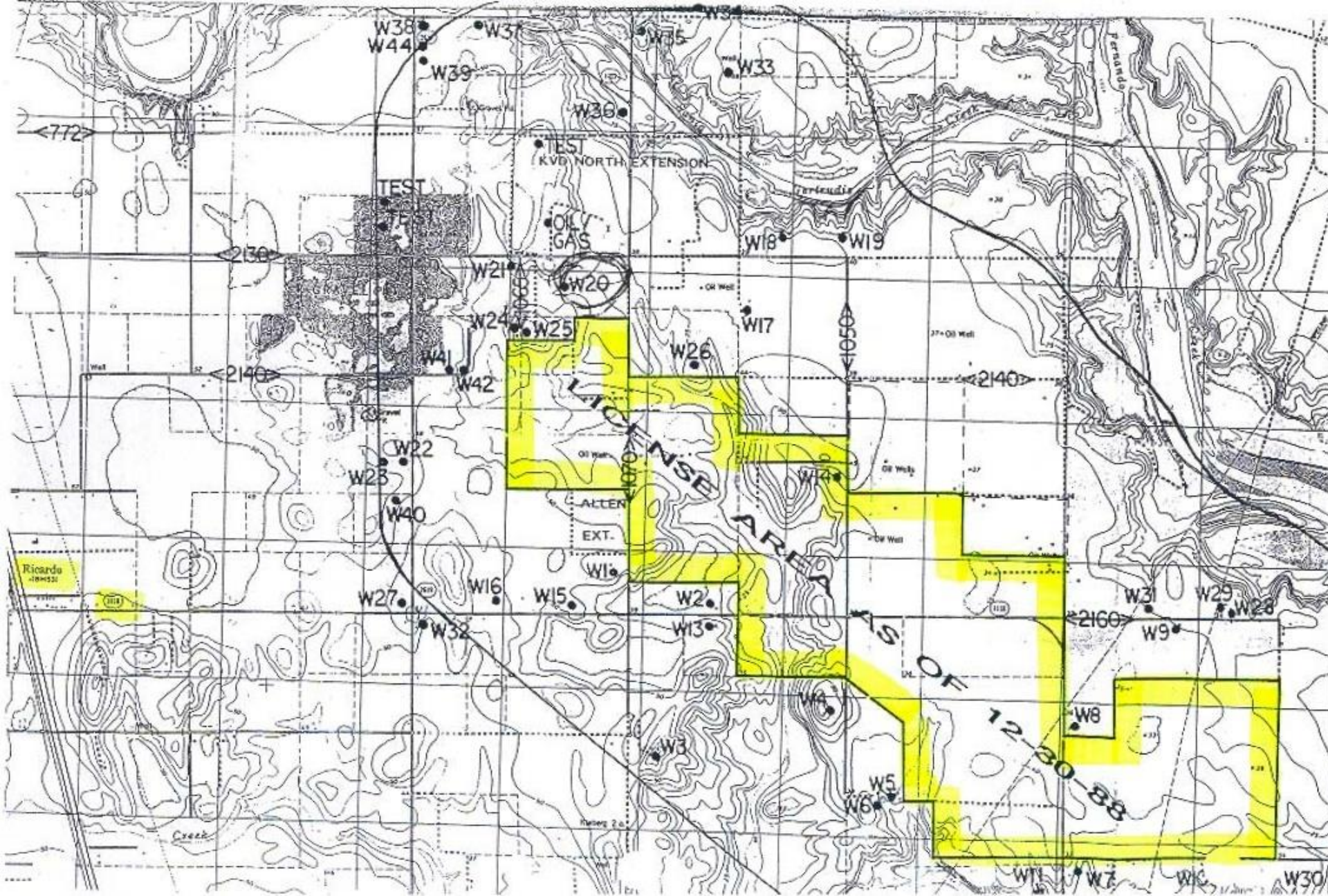
Garcia Hill Well WW-25 - 02/11/2002



Map submitted by URI as Fig.10
 In Its 1988 AE extension
 application.
 Garcia Hill WW-25 not shown.



1998 Environmental Monitoring Locations Map submitted to TDH. The W-20 well is missing from map.



Note: The N-S road marked as 1050 on this map is actually road1080

130117TWDBklebergCoWell... M

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	H	I	J	K	L	
1	latitude	lat_dec	longitude	long_dec	owner_1	owner_2
160	272635	27.443055	975041	-97.844721	Ronald Kellett	
161	272623	27.439721	974854	-97.815000	Heberto Garcia	← TWDB Data
162	272522	27.422777	974854	-97.815000	Gerald A. Cumberland	
163	272706	27.451666	974826	-97.807222	Sellers	
164	272519	27.421943	974604	-97.767777	M. E. Burris	
165	272656	27.448888	974711	-97.786388	Kleberg and Rosse	
166	272652	27.447777	974544	-97.762222	King Ranch, Inc.	Laureles W
167	272416	27.404444	975115	-97.854166	Mrs. J. Talty	
168	272251	27.380832	975032	-97.842221		
169	272356	27.398888	975025	-97.840277	David Van Fleet	
170	272445	27.412500	975130	-97.858333	Olan Patillo	
171	272258	27.382777	975045	-97.845833	Dr. J. K. Northway	
172	272447	27.413055	975015	-97.837499	Fernando Pena	
173	272451	27.414166	975036	-97.843333	Ricardo WSC	
174	272324	27.389999	974804	-97.801111	M. H. Cash	
175	272429	27.408055	974830	-97.808333	Ysabel Camarillo	
176	272346	27.396110	974736	-97.793333	Homer F. Bars	
177	272249	27.380277	974608	-97.768888	Jerry Molin	
178	272326	27.390555	974526	-97.757222	Mrs. R. S. Muil	
179	272929	27.491388	974348	-97.729999	King Ranch, Inc.	Mesquite V
180	272808	27.468888	974150	-97.697221	King Ranch, Inc.	Telephone
181	272806	27.468332	974149	-97.696944	King Ranch, Inc.	Telephone
182	272806	27.468332	974149	-97.696944	King Ranch, Inc.	New Telep

130117TWDBklebergCoWellData_01

Ready 100%

Click to add notes

Slide 12 of 27 "Office Theme"

IsData_01 [Compatibility Mode] - Microsoft PowerPoint

Developer

Text Direction

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Well Name	Well Map No.	Latitude	Longitude
Garcia W-24	1	27.44038	-97.81557
Garcia W-25	2	27.43993	-97.81522
Olivero H.	3	27.44448	-97.81613
Tomas G.	4	27.43812	-97.82043
Ferman G.	5	27.44025	-97.82090
Martinez (69?)	6	27.43488	-97.80933
Well to the South	7	27.43640	-97.80900
Elaine M.	8	27.45455	-97.82047
Perez	9	27.40607	-97.77554
Robertson	10	27.41497	-97.77554
Travis Best	11	27.44753	-97.79606
David Rosse	12	27.44236	-97.79969
B. Cumberland	13	27.42508	-97.81113
John Cumberland	14	27.42295	-97.81113
Jerry Cumberland	15	27.42303	-97.81555
F. Radford	16	27.40981	-97.79050
O. Cumberland	17	27.42233	-97.80146
G. Underbrink	18	27.42135	-97.80043
Palereio	19	27.42129	-97.79357
Trevino Rico	20	27.45917	-97.82302
Rico's Neighbor	21	27.45812	-97.82326

← Mr. Saenz Coordinates

12

start Mail - Inbox... Re: Comme... 3 Microsof... 120724Dat... 081205JET... 130116DIG... 121120KVD... 1212125Da... TWDB Grou... Links 11:24 AM

The TWDB's and Mr. Saenz's Coordinates for GH well W-25 compare very well.

WW-20 →

Exploratory Well
Garcia No. 1 →

GH

WW-24 →

WW-25 →

FLATO

MW 83 MW 82 MW 81

MW 84 MW 80

MW 79

MW 78

MW 77

MW 76

MW 75

MW 74

MW 73

MW 72

MW 125

MW 124

MW 123

← María Benevente's WSW (Plugged).

← Adami #2

ADAME
KD 21 A-F

MW 99

MW 98

MW 97

MW 96

MW 95

MW 94

MW 93

MW 92

MW 91

MW 90

MW 89

MW 88

MW 87

MW 86

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MW 84

MW 83

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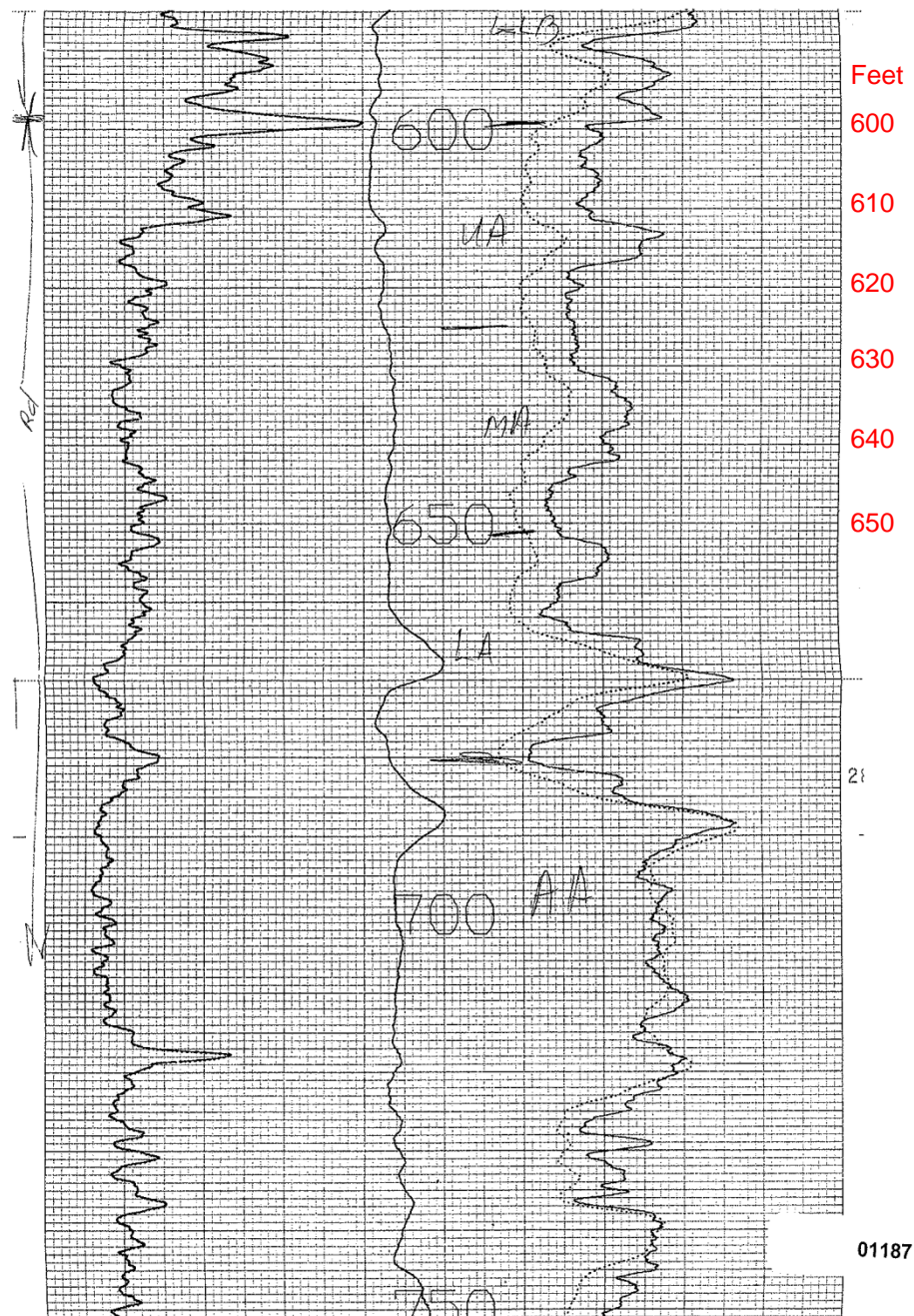
MW -144

MW -145

MW -146

MW -147

MW -148



Goliad Sand

Base of Lissie Fm.

Datum

Top of Goliad Sand

D Sand

D Clay

Resistivity →

C Sand

← SP

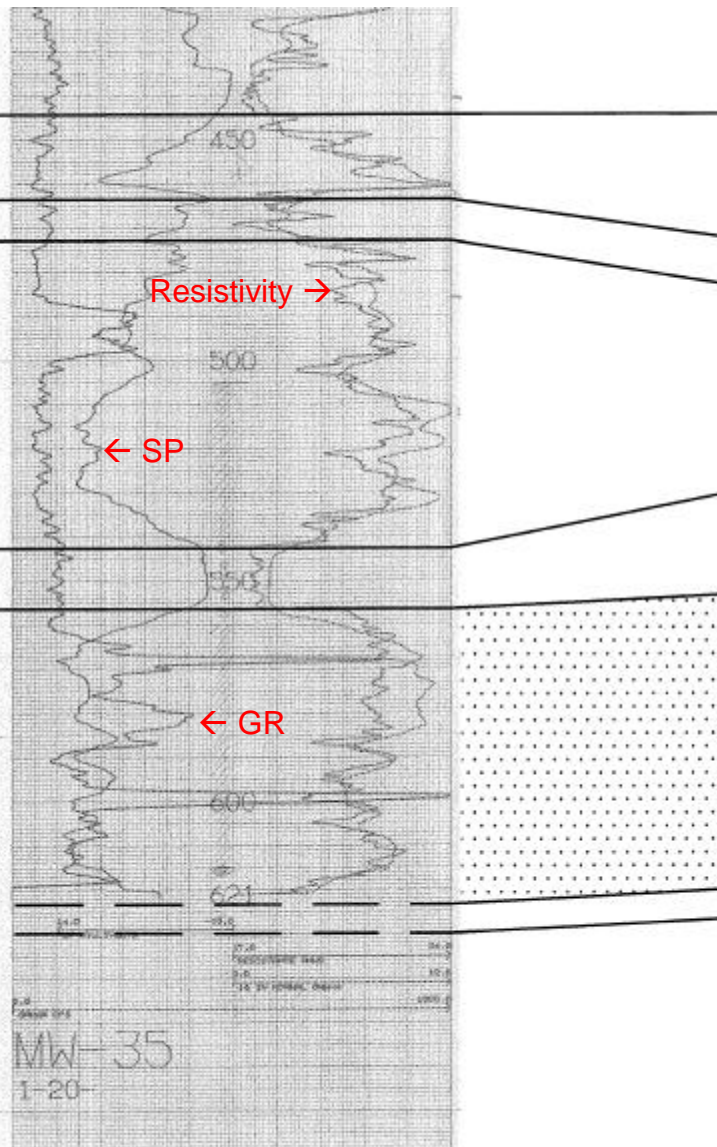
C Clay

B Sand

← GR

B Clay

A Sand



Monitoring Well (MW) Type Log

COMPUTER LOGGING INCORPORATED

URANIUM DATA ANALYSIS

CLIENT: U.R.I.
 HOLE NO: ADAMI#2
 DATE: 12-07-87←

K-FACTOR= .00000630
 CORRECTION FACTOR= 1.150

DEADTIME (MICROSEC.)= .00000025

DEPTH (FT)	RAW CPS	CORRECTED CPS	GRADE %U3O8	CUT #1 .020	CUT #2 .050	CUT #3 .080	CUT #4 .100
662.0	194.	194.	.003				
662.5	223.	223.	.003				
663.0	266.	266.	.004				
663.5	353.	353.	.005				
664.0	638.	638.	.009				
664.5	1170.	1171.	.017				
665.0	1649.	1650.	.024	.024			
665.5	1809.	1810.	.026	.026			
666.0	1686.	1686.	.024	.024			
666.5	1618.	1619.	.023	.023			
667.0	1789.	1790.	.026	.026			
667.5	2255.	2257.	.033	.033			
668.0	2321.	2322.	.034	.034			
668.5	1692.	1692.	.025	.025			
669.0	999.	999.	.014				
669.5	603.	604.	.009				
670.0	467.	467.	.007				
670.5	397.	397.	.006				

Where is the Adami #2 located?.

Is a GR Log available for this well?.

GR readings apparently expressed
 In CPS (Counts Per Second?) units.

Looking for a Mathematical Model
 which might allow to quantify a
 Sand's U content (%U3O8) based
 on GR curve readings:

Is the "Raw CPS" taken straight
 from the GR Curve in the Log?.

CUTOFF NUMBER 1

NUMBER OF HALF-FOOT INTERVALS: 8

AVERAGE GRADE= .027

GRADE-THICKNESS PRODUCT= .107

Is "Grade %U3O8" the same as
 "Equiv. %U3O8 Gross Gamma"?.

CLIENT: URANIUM RESOURCES LOCATION: KINGSVILLE DOME BOREHOLE #: ADAMI #2 TIME 05:03:24 DATE 02-OCT-84
 OTD DRILLED: 750.0 ASSAY FROM 656.0 TO 707.0 HOLE DIAMETER: 5.5 BOREHOLE FLUID: MUD FILE #: MT0:EBA909.RPT
 OPRECISION: 20.00% URANIUM CUTOFF: 0.020% DETECTOR FACTOR: 0.61 SONDE: 1, 23 GROSS GAMMA FACTOR: 0.1520E-04
 COMMENTS:
 ASSAY

Uranium Assay for Adami #2

PGT URANIUM ASSAY %U3O8	GROSS GAMMA EQUIVALENT %U3O8	DISEQUILIBRIUM FACTOR	DEPTH (FEET)	PGT %U3O8 ASSAY	EQUIV. %U3O8 GROSS GAMMA	DEF
0.000 CUT(0.020%)	0.150 0.000	0.150 0.000	6.000			
0.000	0.000	1.0	656.0	0.000	0.0015	0.000
			657.0	0.000	0.0014	0.000
			658.0	0.000	0.0015	0.000
			659.0	0.000	0.0019	0.000
			660.0	0.000	0.0024	0.000
			661.0	0.000	0.0025	0.000
			662.0	0.000	0.0026	0.000
			663.0	0.000	0.0034	0.000
			664.0	0.008	0.0085	0.941
			665.0	0.008	0.0086	0.934
			666.0	0.048	0.0226	2.126
			667.0	0.006	0.0271	0.222
			668.0	0.018	0.0279	0.646
			669.0	0.063	0.0347	1.816
			670.0	0.010	0.0184	0.543
			671.0	0.000	0.0052	0.000
			672.0	0.000	0.0043	0.000
			673.0	0.006	0.0052	1.148
			674.0	0.007	0.0058	1.201
			675.0	0.005	0.0074	0.678
			676.0	0.001	0.0088	0.114
			677.0	0.004	0.0085	0.473
			678.0	0.003	0.0084	0.357
			679.0	0.004	0.0082	0.486
			680.0	0.003	0.0078	0.385
			681.0	0.006	0.0084	0.717
			682.0	0.001	0.0113	0.089
			683.0	0.006	0.0113	0.529
			684.0	0.002	0.0133	0.151
			685.0	0.011	0.0177	0.622
			686.0	0.006	0.0410	0.146
			687.0	0.006	0.0558	0.108
			688.0	0.005	0.0640	0.078
			689.0	0.004	0.0575	0.070
			690.0	0.007	0.0463	0.151
			691.0	0.008	0.0400	0.200
			692.0	0.018	0.0381	0.472
			693.0	0.005	0.0262	0.191
			694.0	0.006	0.0202	0.297
			695.0	0.006	0.0201	0.299
			696.0	0.027	0.0221	1.219
			697.0	0.109	0.0204	5.350
			698.0	0.038	0.0102	3.728
			699.0	0.000	0.0056	0.000
			700.0	0.000	0.0062	0.000

Is "Equiv. %U3O8 Gross Gamma" the same as "Grade - %U3O8" ?

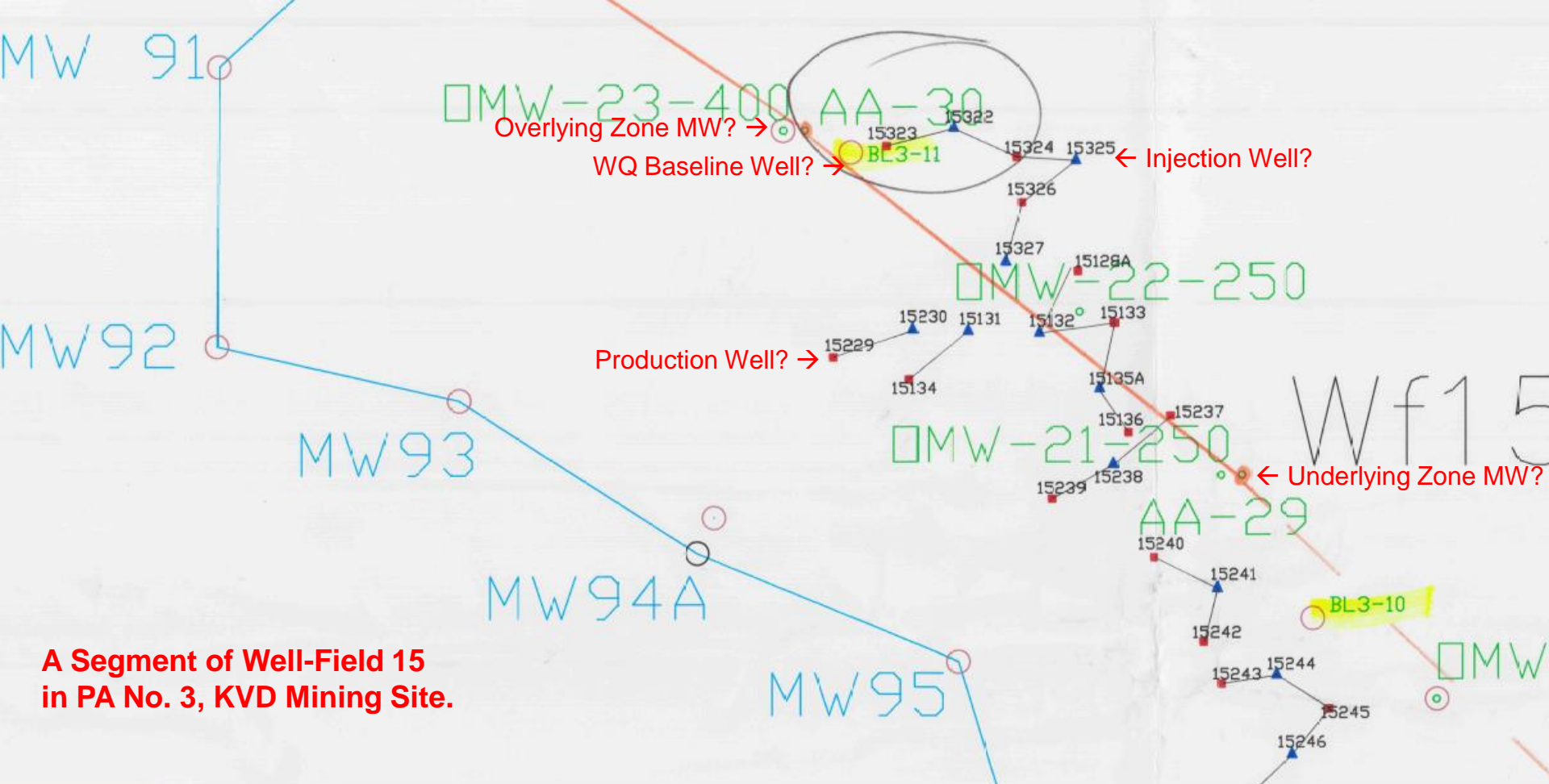
WELL STATUS
PAA #3 MONITOR WELLS
 As of **06/25/97**

Is the "OMW" well a Monitoring Well in the zone overlaying the Production Zone?

What is the meaning of "250" and "400" in the Well's name?. Is it related to the depth to the monitored zone?

Is an "AA" well a Monitoring Well in the zone underlying the Production Zone?

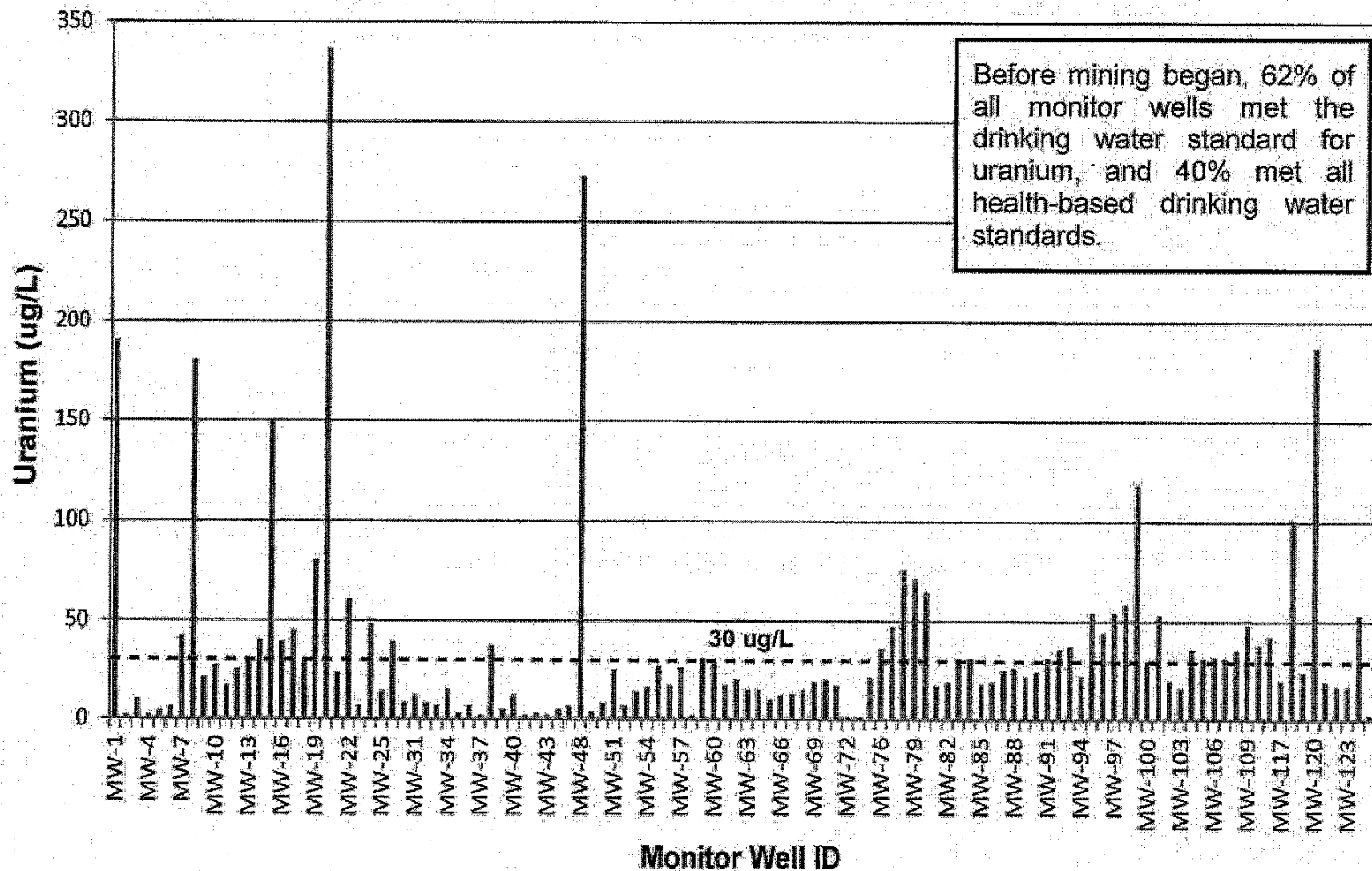
WELL NUMBER	STATUS	REPORT	WELL NUMBER	STATUS	REPORT
1 MW-72	Completed	C	50 OMW-1-250	Complete	C
2 MW-73	Completed	C	51 OMW-2-250	Complete	C
3 MW-74	Completed	C	52 OMW-3-250	Completed	C
4 MW-75	Completed	C	53 OMW-4-250	Completed	C
5 MW-76	Completed	C	54 OMW-5-250	Completed	C
6 MW-77	Completed	C	55 OMW-6-250	Completed	C
7 MW-78	Completed	C	56 OMW-7-250	Completed	C
8 MW-79	Completed	C	57 OMW-8-250	Completed	C
9 MW-80	Completed	C	58 OMW-9-250	Completed	C
10 MW-81	Completed	C	59 OMW-10-250	Completed	C
11 MW-82A	Completed	C	60 OMW-11-250	Completed	C
12 MW-83	Completed	C	61 OMW-12-250	Completed	C
13 MW-84	Completed	C	62 OMW-13-250	Completed	C
14 MW-85	Completed	C	63 OMW-14-400	Completed	C
15 MW-86	Completed	C	64 OMW-15-400	Completed	C
16 MW-87	Completed	C	65 OMW-16-400	Completed	C
17 MW-88	Completed	C	66 OMW-17-400	Completed	C
18 MW-89	Completed	C	67 OMW-18-250	Completed	C
19 MW-90	Completed	C	68 OMW-19-400	Completed	C
20 MW-91	Completed	C	69 OMW-20-250	Completed	C
21 MW-92	Completed	C	70 OMW-21-250	Completed	C
22 MW-93	Completed	C	71 OMW-22-250	Completed	C
23 MW-94A	Completed	C	72 OMW-23-400	Completed	C
24 MW-95	Completed	C	73 OMW-24-250	Completed	C
25 MW-96	Completed	C	74 OMW-25-250	Completed	C
26 MW-97	Completed	C	75 OMW-26-250	DELETED	
27 MW-98	Completed	C			
28 MW-99	Completed	C	76 AA-20	Complete	C
29 MW-100	Completed	C	77 AA-21	Completed	C
30 MW-101	Completed	C	78 AA-22	Completed	C
31 MW-102	Completed	C	79 AA-23	Completed	C
32 MW-103	Completed	C	80 AA-24	Completed	C
33 MW-104	Completed	C	81 AA-25	Completed	C
34 MW-105	Completed	C	82 AA-26	Completed	C
35 MW-106	Completed	C	83 AA-27	Completed	C
36 MW-107	Completed	C	84 AA-28	Completed	C
37 MW-108	Completed	C	85 AA-29	Completed	C
38 MW-109	Completed	C	86 AA-30	Completed	C
39 MW-115	Completed	C	87 B.L. 8501	Complete	C
40 MW-116	Complete	C	88 B.L. 8502	Complete	C
41 MW-117	Complete	C	89 B.L. 8503	Complete	C
42 MW-118	Completed	C	90 B.L. 8504	Completed	C
43 MW-119	Completed	C	91 B.L. 8505	Complete	C
44 MW-120	Completed	C	92 B.L. 8506	Complete	C
45 MW-121	Completed	C	93 B.L. 8507	Complete	C
46 MW-122	Completed	C	94 B.L. 8508	Completed	C
47 MW-123	Completed	C	95 B.L. 8509	Completed	C
48 MW-124	Completed	C	96 B.L. 8510	Complete	C
49 MW-125	Completed	C	97 B.L. 8511	Completed	C



**A Segment of Well-Field 15
in PA No. 3, KVD Mining Site.**

Is the **BL3-11** Well a Water Quality Baseline Well?. The BL3-11 Well is located about **60 Ft** from the 15323 Well, apparently, a **Production Well**. Are water analysis results available for samples from the BL3-11?. The **BL3-11** Well is also about **75 Ft** from the AA-30 Well, which seems to be a monitor well for the AA sand (need to confirm) underlying the producing zone (the A sand?). The **BL3-11** is also about **83 Ft** from the OMW-23-400 Well, which also seems to be a Water Quality monitoring well for the sand overlying the Production Zone (need to confirm). The above info leads to believe that the **BL3-11** may be completed in the U Producing Zone, though data are needed to validate these conjectures. **The underlying question is** whether Baseline Water Quality Data came from **the BL3-11 well**, though it seems to be close to an ore rich portion of the aquifer. How about **BL3-10**?

Pre-mining Uranium Concentrations in KVD Monitor Wells



Data sources: Applications for PAAs 1, 2, and 3, produced by URI in 1987, 1989, and 1997/2002, respectively.

Monitoring Wells MW-81 through MW-91, located near GH, show water Uranium content **at or below MCL**.

Estimated distances
between Garcia Hill
Wells and Key Locations
at North end of PA-3

Well	Ft	Well
W-25	582.7	MW-86
W-24	749.8	MW-86
W-25	653.3	MW-87
W-24	857.9	MW-87
W-25	1562.4	W-20
W-24	1476.6	W-20
W-25	394.0	2699
W-24	555.1	2699
W-25	512.8	2657
W-24	685.8	2657
W-25	701.7	2664
W-24	661.1	2664
W-25	1830.6	2708
W-24	1955.4	2708

State Water Well Report

Jessie Grimes Well

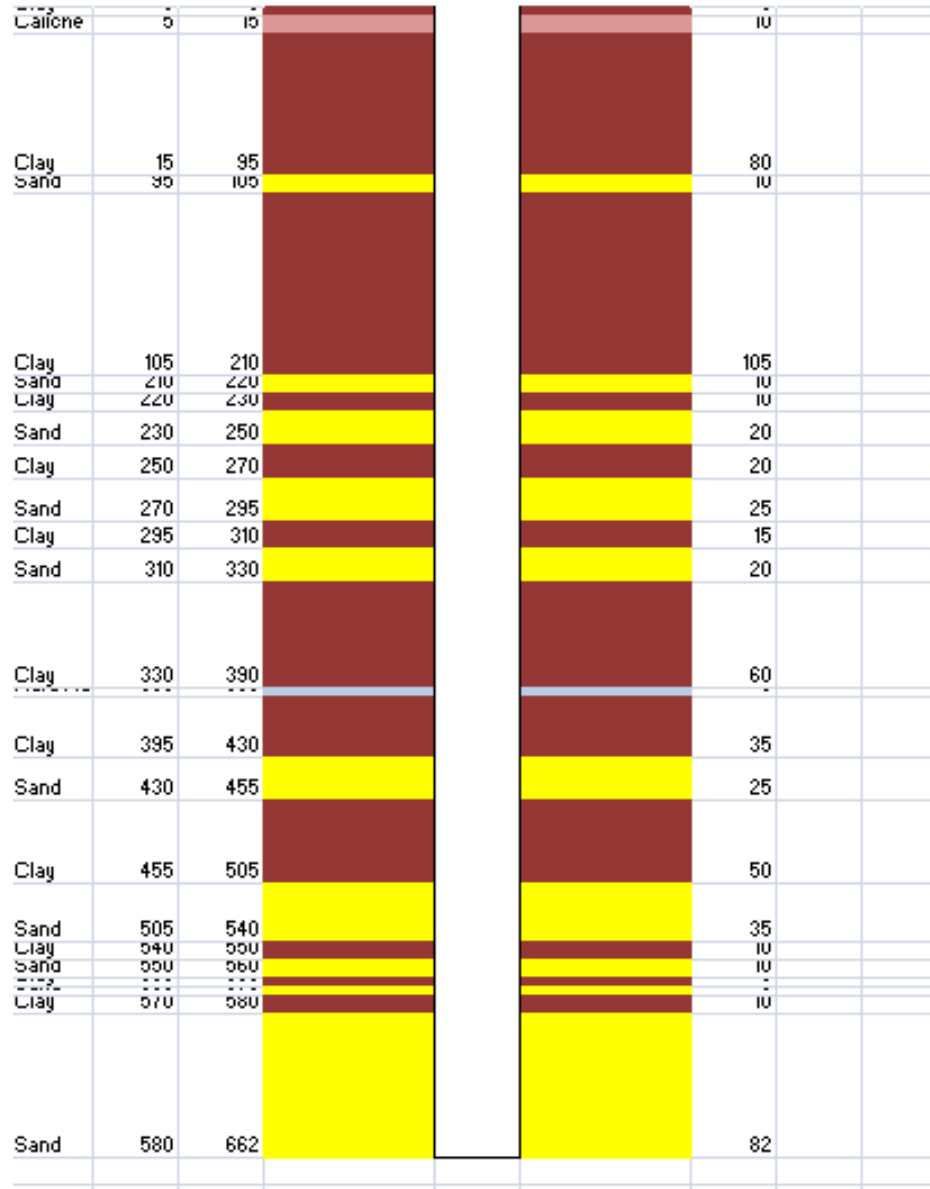
Location Unknown

Attention Owner: Confidentiality Privilege Notice on reverse side of owner's copy.		Texas Department of License and Regulation Water Well Driller/Pump Installer Program P.O. Box 12157 Austin, Texas 78711 (512) 463-7880 FAX (512) 463-8616 Toll free (800) 803-9202 Email address: water.well@license.state.tx.us		This form must be completed and filed with the department and owner within 60 days upon completion of the well.										
WELL REPORT														
1) OWNER														
Name JESSIE GRIMES		Address P.O BOX 5266		City KINGSVILLE										
				State TEXAS										
				Zip 78364										
2) WELL LOCATION														
County KLEBERG		Physical Address C.R 1118		City RICARDO										
				State TEXAS										
				Zip 78364										
3) Type of Work														
<input checked="" type="checkbox"/> New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning														
4) Proposed Use (check) <input type="checkbox"/> Monitor <input type="checkbox"/> Environmental Soil Boring <input checked="" type="checkbox"/> Domestic														
<input type="checkbox"/> Industrial <input type="checkbox"/> Irrigation <input type="checkbox"/> Injection <input type="checkbox"/> Public Supply <input type="checkbox"/> De-watering <input type="checkbox"/> Testwell														
If Public Supply well, were plans submitted to the TNRCC? <input type="checkbox"/> Yes <input type="checkbox"/> No														
5) N†														
6) Drilling Date														
Started 8/19/02		Diameter of Hole												
		<table border="1"> <tr> <th>Dia. (in)</th> <th>From (ft)</th> <th>To (ft)</th> </tr> <tr> <td>7 7/8</td> <td>0</td> <td>300</td> </tr> <tr> <td>6 3/4</td> <td>300</td> <td>662</td> </tr> </table>				Dia. (in)	From (ft)	To (ft)	7 7/8	0	300	6 3/4	300	662
Dia. (in)	From (ft)	To (ft)												
7 7/8	0	300												
6 3/4	300	662												
Completed 8/21/02														
7) Drilling Method (check) <input type="checkbox"/> Driven														
<input type="checkbox"/> Air Rotary <input checked="" type="checkbox"/> Mud Rotary <input type="checkbox"/> Bored <input type="checkbox"/> Air Hammer <input type="checkbox"/> Cable Tool <input type="checkbox"/> Jetted <input type="checkbox"/> Other														
8) Borehole Completion <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Straight Wall														
<input type="checkbox"/> Under-reamed <input type="checkbox"/> Gravel Packed <input type="checkbox"/> Other														
If Gravel Packed give the interval from ft. to ft.														
Casing, Blank Pipe, and Well Screen Data														
From (ft)		To (ft)		Description and color of formation material										
0		5		CLAY										
5		15		CALICHE										
15		95		CLAY										
95		105		SAND										
105		210		CLAY										
210		220		SAND										
220		230		CLAY										
230		250		SAND										
250		270		CLAY										
270		295		SAND										
295		310		CLAY										
310		330		SAND										
(Use reverse side of Well Owner's copy, if necessary)														
13) Plugged <input type="checkbox"/> Well plugged within 48 hours														
Casing left in well: Cement/Bentonite placed in well:														
From (ft)		To (ft)		Sacks used										
14) Typepump														
<input type="checkbox"/> Turbine <input type="checkbox"/> Jet <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Cylinder <input type="checkbox"/> Other														
Depth to pump bowls, cylinder, jet, etc., 200 ft.														
15) Water Test														
Type/test <input type="checkbox"/> Pump <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Jetted <input type="checkbox"/> Estimated														
Yield: gpm with ft. drawdown after hrs.														
16) Water Quality														
Did you knowingly penetrate any strata which contain undesirable constituents?														
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> NO If yes, did you submit a REPORT OF UNDESIRABLE WATER?														
Type of water Depth of Strata														
Was a chemical analysis made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No														
12) Packers														
Type		Depth												
CEMENT BASKET		575												
Company or Individual's Name (type or print) MARTIN WATER WELLS														
Address 2151 N. HWY 77		City ROBSTOWN		Lic. No. 1669WI										
				State TX										
				Zip 78380										
Signature <i>Amos Martin</i>		Date / /		Signature / /										
Licensed Driller/Pump Installer		Apprentice		Date										

Jessie Grimes - 83 – 34 – 5 (08/21/02)

Incomplete
Location
Information:

No Coordinates
Available.



Well Completion
Information:

Cement behind casing from
Surface to 10 Ft. There
appears to be no Cement,
or any other sealing material,
behind the casing in this
well below 10 Ft.

“Top of Screened Interval”
in this well: 622 Ft.

State Water Well Report

Exxon-Co-USA Well

Location Unknown

State of Texas		WATER WELL REPORT																					
Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711		For TDWR use only Well No. <u>83-33-3A</u> Located on map <u>Yes</u> Received: <u>C.F.S.</u>																					
ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side																							
1) OWNER <u>Exxon CO. USA</u> (Name)		Address <u>P.O. Box 672, Kingsville, Tex. 78363</u> (Street or RFD) (City) (State) (Zip)																					
2) LOCATION OF WELL County <u>Archer</u> <u>7</u> miles in <u>SE</u> direction from <u>Kingsville</u> (N.E., S.W., etc.) (Town)																							
<input type="checkbox"/> Legal description: Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter or Half-Section Texas County General Highway Map and attach the map to this form.																							
<input type="checkbox"/> Section No. _____ Block No. _____ Township _____ <input type="checkbox"/> Abstract No. _____ Survey Name _____ <input type="checkbox"/> Distance and direction from two intersecting section or survey lines _____																							
<input checked="" type="checkbox"/> See attached map. <u>upon 83-33-3E</u>																							
3) TYPE OF WORK (Check): <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging		4) PROPOSED USE (Check): <input type="checkbox"/> Domestic <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Public Supply <input type="checkbox"/> Irrigation <input type="checkbox"/> Test Well <input type="checkbox"/> Other _____																					
5) DRILLING METHOD (Check): <input checked="" type="checkbox"/> Mud Rotary <input type="checkbox"/> Air Hammer <input type="checkbox"/> Driven <input type="checkbox"/> Bored <input type="checkbox"/> Air Rotary <input type="checkbox"/> Cable Tool <input type="checkbox"/> Jetted <input type="checkbox"/> Other _____																							
6) WELL LOG: Date drilled <u>10-18-82</u>		7) BOREHOLE COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Straight Wall <input type="checkbox"/> Underreamed <input type="checkbox"/> Gravel Packed <input type="checkbox"/> Other _____ If Gravel Packed give interval ... from _____ ft. to _____ ft.																					
DIAMETER OF HOLE Dia. (in.) From (ft.) To (ft.) <u>6 3/4</u> Surface <u>7 40</u>																							
Description and color of formation material <u>0-112 Clay + caliche</u> <u>112-125 Sand</u> <u>125-153 Shale</u> <u>153-180 Sand</u> <u>180-200 Shale + clay</u> <u>200-245 Sand</u> <u>245-340 Shale + clay</u> <u>340-395 Sand</u> <u>395-490 Shale</u> <u>490-560 Fine sand</u> <u>560-600 Shale</u> <u>600-640 Sand</u> <u>640-660 Shale + clay</u> <u>660-690 Broken sand</u> <u>690-715 Shale + clay</u> <u>715-740 Sand</u>		8) CASING, BLANK PIPE, AND WELL SCREEN DATA: <table border="1"> <thead> <tr> <th rowspan="2">Dia. (in.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Gage Casing Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td><u>4 N</u></td> <td></td> <td><u>Galv. Casing</u></td> <td><u>0</u></td> <td><u>719</u></td> <td></td> </tr> <tr> <td><u>4 N</u></td> <td></td> <td><u>S.S. Screen</u></td> <td><u>719</u></td> <td><u>740</u></td> <td></td> </tr> </tbody> </table>		Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen	From	To	<u>4 N</u>		<u>Galv. Casing</u>	<u>0</u>	<u>719</u>		<u>4 N</u>		<u>S.S. Screen</u>	<u>719</u>	<u>740</u>	
Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)				Gage Casing Screen																
			From	To																			
<u>4 N</u>		<u>Galv. Casing</u>	<u>0</u>	<u>719</u>																			
<u>4 N</u>		<u>S.S. Screen</u>	<u>719</u>	<u>740</u>																			
		CEMENTING DATA Cemented from _____ ft. to _____ ft. Method used <u>N / A</u> Cemented by _____ (Company or individual)																					
		9) WATER LEVEL: Static level <u>90</u> ft. below land surface Date <u>10-18-82</u> Artesian flow _____ gpm. Date _____																					
		10) PACKERS: Type Depth <u>Cement basket 705</u>																					
		11) TYPE PUMP: <input type="checkbox"/> Turbine <input type="checkbox"/> Jet <input type="checkbox"/> Submersible <input type="checkbox"/> Cylinder <input type="checkbox"/> Other <u>N / A</u> Depth to pump bowls, cylinders, jet, etc., _____ ft.																					
		12) WELL TESTS: <input checked="" type="checkbox"/> Type Test: <input type="checkbox"/> Pump <input type="checkbox"/> Bailor <input checked="" type="checkbox"/> Jetted <input type="checkbox"/> Estimated Yield: _____ gpm with _____ ft. drawdown after _____ hrs.																					
13) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable water? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, submit "REPORT OF UNDESIRABLE WATER". Type of water? _____ Depth of strata? _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																							
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.																							
NAME <u>Amos Martin</u> (Type or Print)		Water Well Drillers Registration No. <u>11669</u>																					
ADDRESS <u> Hwy 77 N. </u> (Street or RFD)		<u>Robstown Texas 78380</u> (City) (State) (Zip)																					
(Signed) <u>Amos Martin</u> (Water Well Driller)		<u>Martin Water Wells</u> (Company Name)																					
Please attach electric log, chemical analysis, and other pertinent information, if available.																							

Incomplete
Location
Information:

No Coordinates Available.

Confusing Location
Description in the “State
of Texas Water Well
Report”.

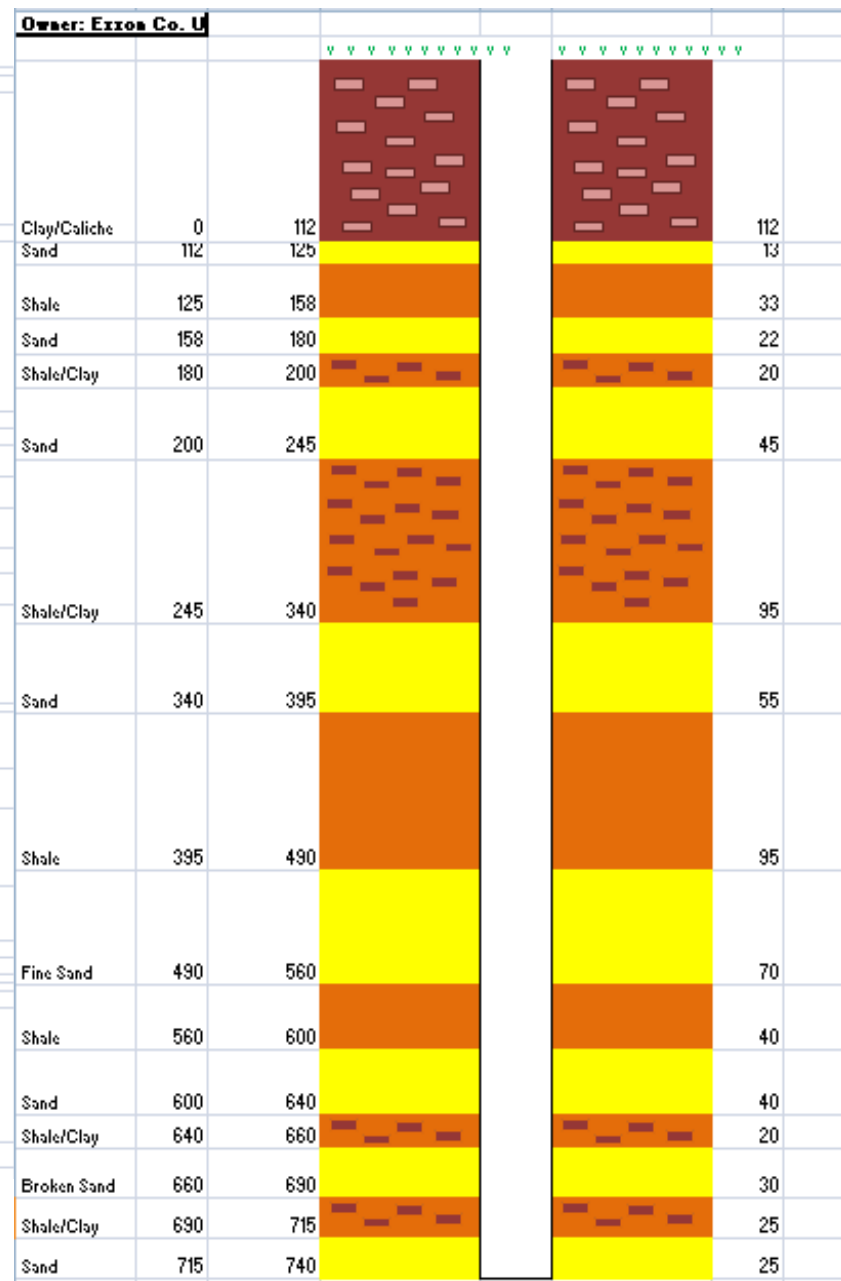
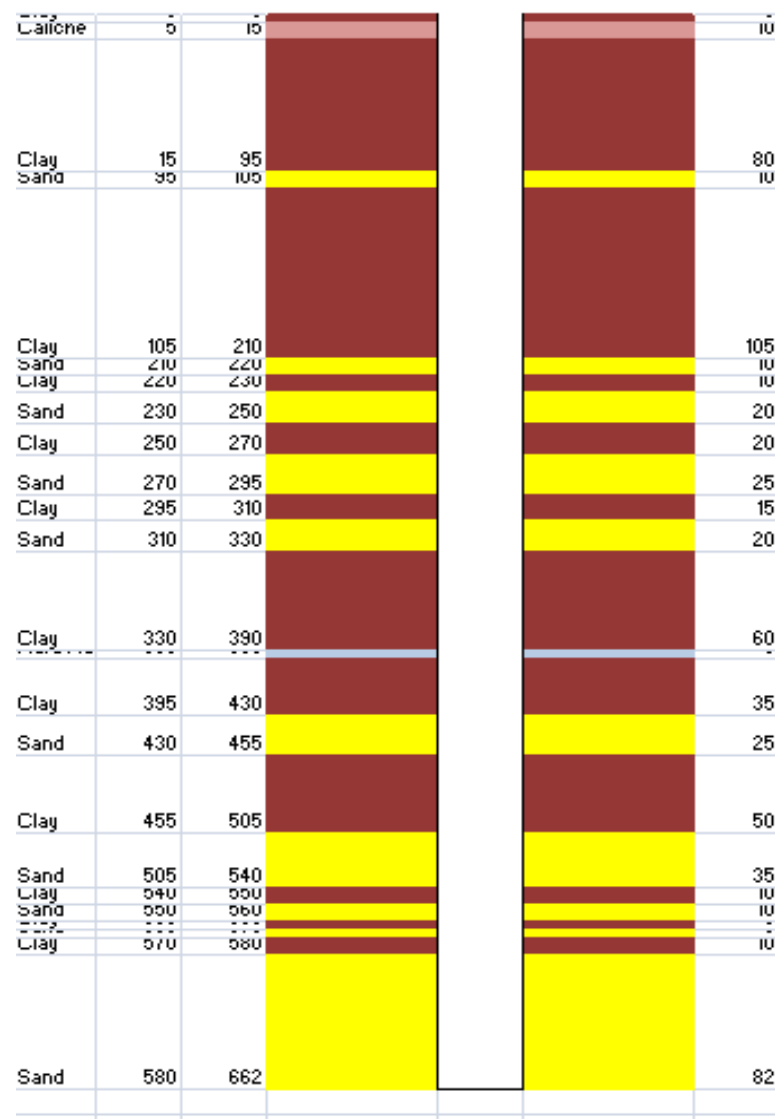
Reference Made to
“Map for 83 – 33 – 3E(?)”.
What does it mean?.

Owner: Exxon Co. U						
			v v v v v v v v v v v v		v v v v v v v v v v v v	
Clay/Caliche	0	112				112
Sand	112	125				13
Shale	125	158				33
Sand	158	180				22
Shale/Clay	180	200				20
Sand	200	245				45
Shale/Clay	245	340				95
Sand	340	395				55
Shale	395	490				95
Fine Sand	490	560				70
Shale	560	600				40
Sand	600	640				40
Shale/Clay	640	660				20
Broken Sand	660	690				30
Shale/Clay	690	715				25
Sand	715	740				25

Incomplete
Completion
Information:

Is there Cement, or
any other Sealing
Material, behind the
Casing in this well?.

What is the “Top of the
Screened Interval” in
this well?.



STATE OF TEXAS WELL REPORT for Tracking #178262

Owner:	FERMIN GARZA	Owner Well #:	No Data
Address:	424 N. FM2619 KINGSVILLE , TX 78363	Grid #:	83-34-5
Well Location:	C.R 2130 KINGSVILLE , TX 78363	Latitude:	27° 26' 43" N
Well County:	Kleberg	Longitude:	097° 49' 25" W
Elevation:	No Data	GPS Brand Used:	GARMIN
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Date: Started: **4/27/2009**
Completed: **4/30/2009**

Diameter of Hole: Diameter: **7 7/8 in From Surface To 300 ft**
Diameter: **6 3/4 in From 300 ft To 595 ft**

Drilling Method: **Mud Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data: **→ 1st Interval: From 0 ft to 10 ft with 2 CEMENT (#sacks and material)**
2nd Interval: **No Data**
3rd Interval: **No Data**
Method Used: **POURED**
Cemented By: **LARRY MARTIN**
Distance to Septic Field or other Concentrated Contamination: **N/A ft**
Distance to Property Line: **No Data**
Method of Verification: **No Data**
Approved by Variance: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: Static level: **145 ft. below land surface on 4/30/2009**
Artesian flow: **No Data**

Packers: **CEMENT BASKET 520**
RUBBER 545

Plugging Info: Casing or Cement/Bentonite left in well: **No Data**

Type Of Pump: **Submersible**
Depth to pump bowl: **220 ft**

Well Tests: **Jetted**
Yield: **(No Data) GPM with (No Data) ft drawdown after (No Data) hours**

Water Quality: Type of Water: **No Data**
Depth of Strata: **No Data**
Chemical Analysis Made: **No**
Did the driller knowingly penetrate any strata which contained undesirable constituents: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under

the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information: **MARTIN WATER WELLS**
2151 N. HWY 77
ROBSTOWN , TX 78380

Driller License Number: **2094**

Licensed Well Driller Signature: **LARRY MARTIN**

Registered Driller Apprentice Signature: **No Data**

Apprentice Registration Number: **No Data**

Comments: **No Data**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #178262) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0-8 CLAY
8-38 BROKEN SAND
38-90 CLAY
90-94 BROKEN SAND
94-390 CLAY
390-406 SANDY CLAY
406-430 CLAY
430-441 BROKEN SAND
441-479 CLAY
479-486 SAND
486-531 CLAY
531-537 SAND
537-550 CLAY
550-595 SAND

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To
4 1/2 N PVC CASING 0-300
4 N PVC CASING 300-555
4 N PVC SCREEN 555-595 12

State Water Well Report

Fermin Garza Water Well

Incomplete Completion Information:

Is there Cement, or any other Sealing Material, below 10 Ft, behind the Casing in this well?.

“Top of the Screened Interval” in this well: 555 Ft.

WELL: FERMIN GARZA					
CLAY	0	8			8
BROKEN SAND	8	38			30
CLAY	38	90			52
BROKEN SAND	90	94			4
CLAY	94	390			296
SANDY CLAY	390	406			16
CLAY	406	430			24
BROKEN SAND	430	441			11
CLAY	441	479			38
SAND	479	486			7
CLAY	486	531			45
SAND	531	537			6
CLAY	537	550			13
SAND	550	595			45

Up to 119 Ft of Water Productive (?) Sand here.

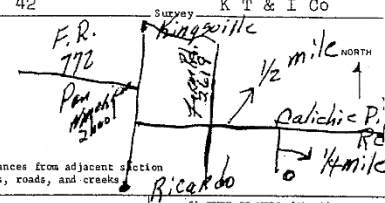
Heberto Garcia

Garcia Well W-25

State Water Well
Report

DEPOSITION
EXHIBIT

Prof. 11

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711		State of Texas WATER WELL REPORT		For TWDB use only Well No. _____ Located on map _____ Received _____ Form GW 8 _____ Form GW 9 _____	
1) OWNER: Person having well drilled <u>Heberto Garcia</u> Address <u>Caliche Pit Road - Ricardo</u> (Name) (Street or RFD) (City) (State) (Zip) Landowner <u>Heberto Garcia</u> Address <u>Same as above</u> (Name) (Street or RFD) (City) (State) (Zip)					
2) LOCATION OF WELL: County <u>Albany</u> Labor _____ League _____ Abstract No. _____ Block No. <u>42</u> Survey <u>K T & I Co</u> Wells in <u>7 1/4</u> SE of Section _____ Kingsville, Texas (NE, SW, etc.) (Town)					
Sketch map of well location with distances from adjacent section or survey lines, and to landmarks, roads, and creeks. 					
3) TYPE OF WORK (Check): New Well <input checked="" type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging <input type="checkbox"/>		4) PROPOSED USE (Check): Domestic <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Municipal <input type="checkbox"/> Irrigation <input type="checkbox"/> Test Well <input type="checkbox"/> Other <input type="checkbox"/>		5) TYPE OF WELL (Check): Rotary <input checked="" type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Cable <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>	
6) WELL LOG: Diameter of hole <u>9 7/8</u> in. Depth drilled <u>631</u> ft. Depth of completed well <u>631</u> ft. Date drilled <u>5-5-67</u> All measurements made from <u>4</u> ft. above ground level.					
From (ft.) To (ft.) Description and color of formation material		From (ft.) To (ft.) Description and color of formation material			
0 19 Clay and caliche		241 439 clay			
19 35 sand		439 451 sand			
35 91 clay		451 506 clay			
91 108 sand		506 527 sand			
108 171 clay		527 575 clay with red shale			
171 186 sand		575 601 red sand with strks. of shal			
186 233 clay		601 609 red shale			
233 241 sand		609 631 (red sand) (as necessary)			
7) COMPLETION (Check): Straight well <input checked="" type="checkbox"/> Gravel packed <input type="checkbox"/> Other <input type="checkbox"/> Under reamed <input type="checkbox"/> Open hole <input type="checkbox"/>		8) WATER LEVEL: <u>119</u> ft. below land surface Date <u>5-5-67</u> Artesian pressure _____ lbs. per square inch Date _____			
9) CASING: Type: old <input type="checkbox"/> New <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Plastic <input type="checkbox"/> Other <input type="checkbox"/> Cemented from _____ ft. to _____ ft.		10) SCREENS: Type <u>Slotted with plastic cloth sock</u> Perforated <input type="checkbox"/> Slotted <input checked="" type="checkbox"/>			
Diameter (inches) From (ft.) To (ft.) Gauge		Diameter (inches) From (ft.) To (ft.) Slot size			
7" 0 606 26 lbs.		4 1/2" 610 631			
11) WELL TESTS: Was a pump test made? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes by whom? <u>R. C. Custer</u> Yield: <u>75</u> gpm with _____ ft. drawdown after _____ hrs Bailer test: _____ gpm with _____ ft. drawdown after _____ hrs Artesian flow _____ gpm Date _____ Temperature of water _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input type="checkbox"/> No Did any strata contain undesirable water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Type of water: <u>All sands from strata 506'</u>		12) PUMP DATA: Manufacturer's Name <u>Aeromotor</u> Type <u>Submersible</u> H.P. <u>2</u> Designed pumping rate <u>1700</u> gpm <input type="checkbox"/> gph <input checked="" type="checkbox"/> Type power unit <u>Electric</u> Depth to bowls, cylinder, jet, etc., <u>168</u> ft. below land surface.			
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.					
NAME <u>R. C. Custer</u> (Type or Print) Water Well Drillers Registration No. <u>728</u>					
Address <u>Rt. 1, Box 450A</u> Kingsville, Texas					
(Signed) <u>R.C. Custer</u> (Water Well Driller) <u>R.C. Custer Water Well Drilling</u> (Company Name)					
Please attach electric log, chemical analysis, and other pertinent information, if available.					

Heberto Garcia - GH W-25 (05/05/67)

Owner: Heberto Garcia						
CLAY/CALICHE	0	19				19
SAND	19	35				16
CLAY	35	91				56
SAND	91	108				17
CLAY	108	171				63
SAND	171	186				15
CLAY	186	233				47
SAND	233	241				8
Clay	241	439				198
Sand	439	451				12
Clay	451	506				55
Sand	506	517				11
Clay+Red Shale	517	575				58
Red Snd+Strks Sh	575	601				26
Red Shale	601	609				8
Red Sand	609	631				22

Incomplete Completion Information:

Is there Cement, or any other Sealing Material, behind the Casing in this well?. It appears not.

“Top of Screened Interval” in this well: 610 Ft.

Up to 127 Ft of Water Productive (?) Sands here.

Fermin Garza

Heberto Garcia - W-25?

OWNER: FERMIN GARZA

CLAY	0	8			8
BROKEN SAND	8	38			30
CLAY	38	90			52
BROKEN SAND	90	74			4
CLAY	94	390			296
SANDY CLAY	390	406			16
CLAY	406	430			24
BROKEN SAND	430	441			11
CLAY	441	479			38
SAND	479	486			7
CLAY	486	531			45
SAND	531	537			6
CLAY	537	550			13
SAND	550	595			45

Owner: Heberto Garcia

CLAY/CALICHE	0	19			19
SAND	19	35			16
CLAY	35	91			56
SAND	91	108			17
CLAY	108	171			63
SAND	171	186			15
CLAY	186	233			47
SAND	233	241			8
Clay	241	439			198
Sand	439	451			12
Clay	451	506			55
Sand	506	517			11
Clay+Red Shale	517	575			58
Red Snd+Strks Sh	575	601			26
Red Shale	601	609			8
Red Sand	609	631			22

WELL	LEAD ACETATE	EH	ODOR	TASTE	COLOR SD	LOC. MAP	DO	FRESH/ STORED	POX/20X/Rd
L-1	BWN/WHT	-25	H ₂ S	?	ORG/GRY	20X/Rd	4.0	FRESH	20X/Rd
PBL-2	BWN/WHT	-28	STRONG H ₂ S	?	ORG.	POX/20X	1.0	FRESH	20X/Rd
PBL-4	BWN/WHT	-95	STRONG H ₂ S	?	GRY	Rd	.5	FRESH	Rd
PBL-5	WHT	0	NONE	?	ORG/GRY	20X/Rd	1.0	FRESH	20X/Rd
JAY DAFINE #74	WHT	-10	FAINT H ₂ S	SLY SULPHUR	GRY	Rd	2.5	VERY NOREACT BUT SUPP. FRESH	Rd
OLLINS #73	WHT	+80	NONE	?	GRY	Rd	4.5	STORED	Rd
VIO ROSSE 72	BWN	-360	STRONG H ₂ S	SULPHUR	?	Rd	4.5	FRESH	(INTO Rd FROM #73, 2)
ROLO GARREIS #18	WHT	+80	NONE	?	BWN	POX	1.5	FRESH	Rd (ALL WELLS IN AREA RED 30 S POX (DUE SOUTH OF 20X HAMILTON & 1/4 MILE 20X
ARCIA 69 A	WHT	+60	NONE	6000	?	20X/Rd	5.5	STORED	20X/Rd
ARCIA 69 B	WHT	-50	NONE	6000	(FROM FILTER) ORG	20X/Rd	3.0	FRESH	20X/Rd
ARCIA 69 C	WHT	-255	NONE	6000	(FROM FILTER) ORG-ORG	20X/Rd	6.0	STORED	20X/Rd
BEALAND #76	WHT	+120	NONE	6000	?	20X/POX	3.0	FRESH	20X/POX
M. BEALAND #77	WHT	+135	NONE	?	?	20X/Rd	3.0	FRESH	20X/POX
WAMS #144	WHT	-155	NONE	6000	?	20X/Rd	5.5	STORED	20X/Rd
AY #150	WHT	+40	NONE	6000	?	?	3.5	FRESH	20X/POX
AY #152	WHT	+190	NONE	?	?	?	5.5	STORED	20X/POX
ALAZA #151	WHT	-120	NONE	6000	?	?	5.5	FRESH	20X/Rd
RODFORD VIO MIZ	DRK- BWN	-175	STRONG H ₂ S	SULPHUR	GRY	20X/Rd	3.5	FRESH	Rd
Note: (BWN indicates presence of H ₂ S)									
Ftn. 6									

Exhibit B Kingsville Dome

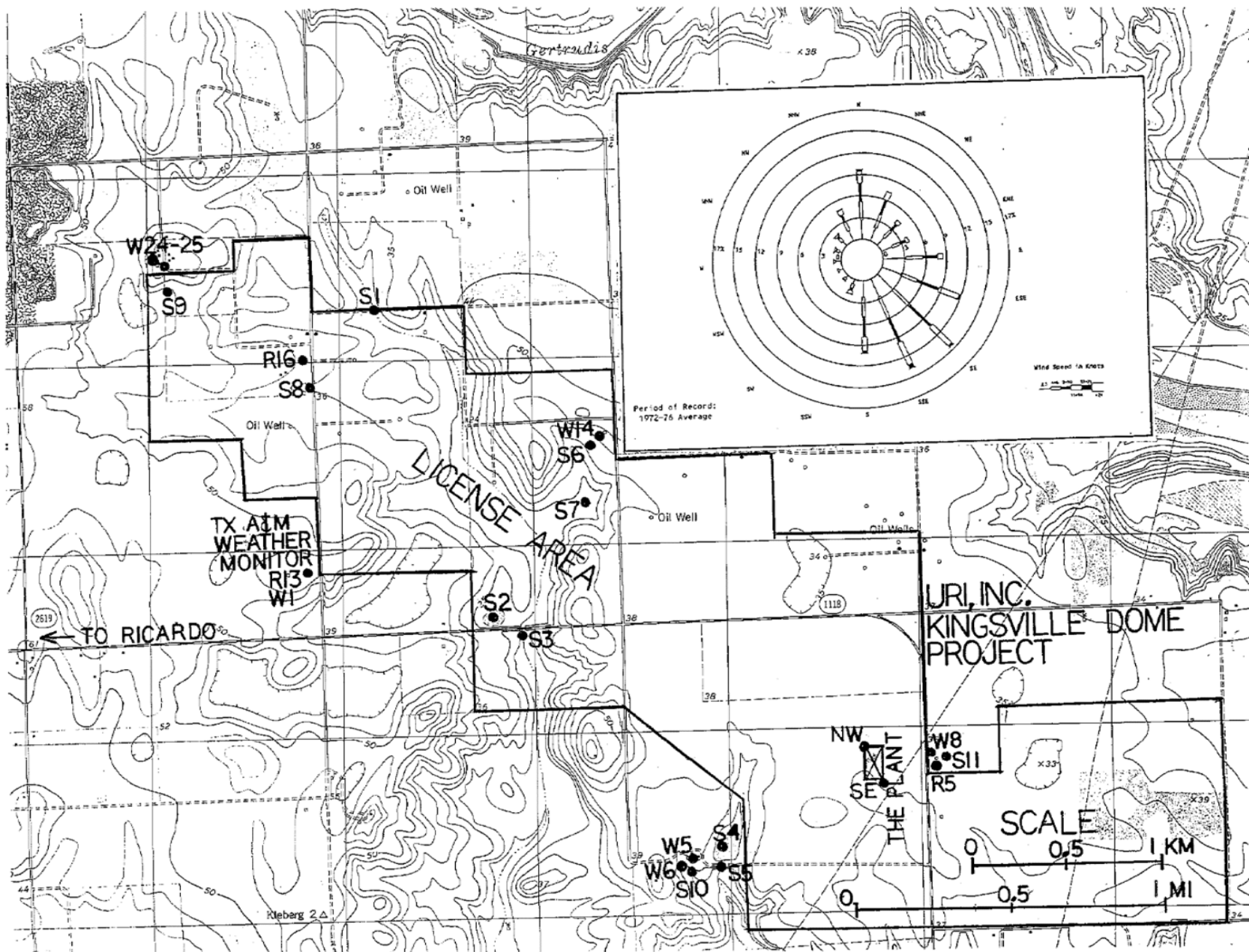
5/21/87	pH	Conduct	U ₃₀₈	MgHCO ₃	SO ₄	Cl ⁻
David Bries # 19	7.51	1991	0.12	432	248	
Huff # 79	7.83	2160	0.00	334	447	
5/22/87						
Garcia # 69A	7.74	1580	0.05	432	210	
Garcia # 69B	7.86	1500	0.08	460	184	
D. Rosse # 72	8.64	1590	0.00	376	187	
Collins # 73	7.89	1420	0.10	458	104	
J. Lartin # 74	7.83	2430	0.07	279	545	
5/26/87						
Garcia # 69C	7.97	1600	0.05	446	209	
Hamperland # 76	7.84	1540	0.10	432	210	239
Hamperland # 77	7.84	1470	0.07	474	156	246
Williams # 144	7.91	1800	0.00	460	179	
C. E. May # 150	7.97	1730	0.08	418	241	
A. Salinas # 151	7.56	1710	0.03	446	244	
May # 152	7.92	1760	0.05	460	184	
Adford Windmill	8.65	1630	0.00	382	35-X	

Are the Wells
Listed as
#69A, #69B
and #69C
one well?. If yes,
Which Garcia Hill
Well?
If not, Which
Wells are they?.

It appears that
these Lab results
were not taken
into account
In the "Historical
Uranium
Concentrations"
Table and Graph
shown below.

RECEIVED
JUN - 2 1997

6-DM9
11:08 AM 6/13/97
RECEIVED
SOURCE WATER
PROTECTION BRANCH
Rot. 10



1998 Environmental Monitoring Locations Map submitted to TDH. The W-20 well is missing from map.

GROUND WATER ANALYSIS REPORT-IN SITU MINING-URANIUM

COMPANY: URI, INC.
 IDENTIFICATION: KVD GARCIA W24-25
 2-25-98
 LABORATORY: JORDAN LABORATORIES, INC.

← No justification for Well Name change provided
 REPORT DATE: APRIL 21, 1998

MAJOR AND SECONDARY CONSTITUENTS

ITEM	MG/L	EPM	CONDUCTANCE	%EPM
CALCIUM(CA)	19	0.95	49.40	6.17
MAGNESIUM(MG)	6.3	0.52	24.23	3.38
SODIUM(NA)	315	13.70	669.93	89.02
POTASSIUM(K)	8.6	0.22	15.84	1.43

TOTAL CATION 15.39

CARBONATE(CO3)	0	0.00	0.00	0.00
BICARBONATE(HCO3)	304	4.98	217.13	32.21
SULFATE(SO4)	193	4.02	297.08	26.00
CHLORIDE(CL)	229	6.46	490.31	41.79
NITRATE(NO3-N)				
FLUORIDE(F)				
SILICA(SIO2)	18			

TOTAL 1763.92

TOTAL ION 1093
 TOTAL ANION 15.46

TDS(180 C)	923
TOT ION-0.5 HCO3=	941
EC(25 C)	1630 UMHOS
EC(DIL)=106.0 X 16.7 =	1770 UMHOS
ALK. AS CAC03	249
PH	8.05

ACCURACY CHECK

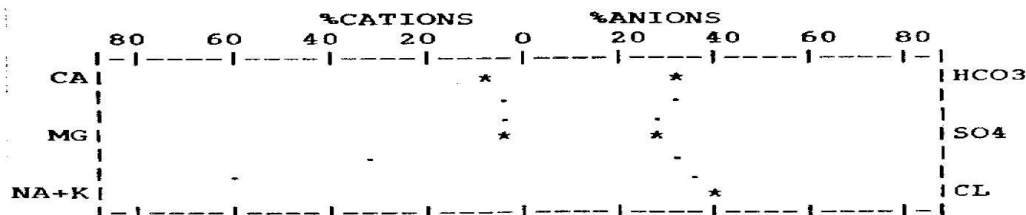
	RANGE
ION	0.995 (.96 TO 1.04)
TDS	0.981 (.90 TO 1.10)
EC	1.004 (.95 TO 1.05)

RADIATION-PICOCURIES/LITER

GROSS ALPHA	88	+/-	9
GROSS BETA	32	+/-	4
RADIUM 226	0.7	+/-	0.1

MINOR AND TRACE CONSTITUENTS

ITEM	MG/L	ITEM	MG/L	ITEM	MG/L
ARSENIC(AS)		MANGANESE(MN)		VANADIUM(V)	
BARIUM(BA)		MERCURY(HG)		ZINC(ZN)	
CADMIUM(CD)		MOLY.(MO)		BORON(B)	
CHROM.(CR)		NICKEL(NI)		AMMONIA-N	
COPPER(CU)		SELENIUM(SE)			
IRON(Fe)		SILVER(AG)			
LEAD(PB)		URANIUM(U)	0.189 ←		



LAB.NO:M36-1627

ANALYST:

NIXON AND ALLEN

CHECKED BY:

Calderon

**Kingsville Dome Project
RIX1 Baseline Analysis**

Sample	Ref*	Rn-222	Date	Ra-226 T	Date	Ra-226 S	Date	U	Date	G-Alpha	Date	G-Beta	Date	Pb-210	Date	Gamma	Date	Cond.	Date	pH	Date
Air	R3	IN PROGRESS																			
	R4	IN PROGRESS																			
	R13	.3 pCi/l	4-1-98																		
	R16	.4 pCi/l	4-1-98																		
Groundwater	WW1			0.1 pCi/l	2-25-98			.013 ppm	2-25-98	7.3 pCi/l	2-25-98	25 pCi/l	2-25-98					1570 uMho	2-25-98	8.26	2-25-98
	WW20			0.7 pCi/l	2-25-98			.189 ppm	2-25-98	88 pCi/l	2-25-98	32 pCi/l	2-25-98					1630 uMho	2-25-98	8.05	2-25-98
Surface Water	S1			0.5 pCi/l	2-18-98			<.001 ppm	2-18-98	3.5 pCi/l	2-18-98	22 pCi/l	2-18-98					143 uMho	2-18-98	7.63	2-18-98
	S2			0.5 pCi/l	11-6-97			.002 ppm	11-6-97	3.2 pCi/l	11-6-97	16 pCi/l	11-6-97					1810 uMho	11-6-97	6.72	11-6-97
	S3			0.3 pCi/l	2-18-98			0.01 ppm	2-18-98	7.3 pCi/l	2-18-98	19 pCi/l	2-18-98					3710 uMho	2-18-98	7.57	2-18-98
	S3			0.3 pCi/l	2-18-98			0.01 ppm	2-18-98	7.3 pCi/l	2-18-98	19 pCi/l	2-18-98					3710 uMho	2-18-98	7.57	2-18-98
Soil	R13													0.8 pCi/l	9-11-97						
	R16													0.8 pCi/l	9-11-97						
	R3													IN PROGRESS							
	R4													IN PROGRESS							
	RIX1 0-6"			0.4 pCi/g	4-20-98			.78 ppm	4-20-98												
	RIX1 6-12"			0.4 pCi/g	4-20-98			.78 ppm	4-20-98												
Vegetation	R3													NO VEGETATION							
	R4													NO VEGETATION							
	R13													0.7 pCi/l	9-11-97						
	R16													0.6 pCi/l	9-11-97						
	R16													0.6 pCi/l	9-11-97						
Gamma	R3													IN PROGRESS							
	R4													IN PROGRESS							
	R13													1.06 mR/wk	4-7-98						
	R16													1.23 mR/wk	4-7-98						
Sediment	S1			0.5 pCi/g	5-23-97	.011 pCi/g	5-23-97	1.2 ppm	5-23-97												
	S2			0.3 pCi/g	5-23-97	.001 pCi/g	5-23-97	1.1 ppm	5-23-97												
	S3			0.7 pCi/g	5-23-97	.004 pCi/g	5-23-97	3.0 ppm	5-23-97												

* See map for reference locations.

JORDAN LABORATORIES, INC.
CHEMISTS AND ENGINEERS
CORPUS CHRISTI, TEXAS
MAY 12, 1988

URI, INC.
12377 MERIT DR., SUITE 750, LB14
DALLAS, TEXAS 75251

REPORT OF ANALYSIS

IDENTIFICATION: A. GARCIA
3-31-88 ←

ANALYSIS
DATE

PH ----- 8.19
SPECIFIC CONDUCTANCE 1640 UMHOS/CM @ 25 DEG.C.

4-04-88
4-27-88

MG/L

TOTAL DISSOLVED SOLIDS (180 DEG.C.) -----	974	4-11-88
ARSENIC -----	0.003	4-08-88
COPPER -----	<0.01	5-03-88
MOLYBDENUM -----	0.01	5-03-88
SELENIUM -----	0.003	4-08-88
→ URANIUM (NATURAL) -----	0.011	4-18-88
GROSS ALPHA ACTIVITY, PCI/L -----	9.2 +/- 11	4-27-88
GROSS BETA ACTIVITY, PCI/L -----	6.3 +/- 6.2	4-27-88
RADIUM 226, PCI/L -----	1.1 +/- 0.2	4-13-88
THORIUM 230, PCI/L -----	-0.4 +/- 0.7	5-12-88

LAB. NO. M26-2219

It appears that these Lab results
were not taken into account in the
"Historical Uranium Concentrations"
Table and Graph shown below.

RESPECTFULLY SUBMITTED,


CARL F. CROWNOWER

Which Garcia Hill well is the A. (Armando?) García Well: W-25?.

TEL. 512-884-0371

PO BOX 2552 78402

JORDAN LABORATORIES, INC.
CHEMISTS AND ENGINEERS
CORPUS CHRISTI, TEXAS
MAY 12, 1988

URI, INC.
12377 MERIT DR., SUITE 750, LB14
DALLAS, TEXAS 75251

REPORT OF ANALYSIS

IDENTIFICATION: Y.C. GARCIA
3-31-88 ←

ANALYSIS
DATE

PH ----- 8.24
SPECIFIC CONDUCTANCE 1550 UMHOS/CM @ 25 DEG.C.

4-04-88
4-27-88

MG/L

TOTAL DISSOLVED SOLIDS (180 DEG.C.) -----
ARSENIC -----
COPPER -----
MOLYBDENUM -----
SELENIUM -----
→ URANIUM (NATURAL) -----

858
<0.001
<0.01
0.08
0.010
0.032

4-11-88
4-08-88
5-03-88
5-03-88
4-08-88
4-18-88

GROSS ALPHA ACTIVITY, PCI/L ----- 22 +/- 13
GROSS BETA ACTIVITY, PCI/L ----- 21 +/- 7
RADIUM 226, PCI/L ----- 3.2 +/- 0.2
THORIUM 230, PCI/L ----- 0.6 +/- 0.9

4-27-88
4-27-88
4-13-88
5-12-88

LAB. NO. M26-2220

It appears that these Lab results
were not taken into account in the
"Historical Uranium Concentrations"
Table and Graph shown below.

RESPECTFULLY SUBMITTED,


CARL F. CROWNOWER

Which Garcia Hill Well is the Y. G. Garcia Well: W-20?.

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
July 23, 2004

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD
Garcia Well
1415 6-29-04 ←

RECEIVED
SOURCE WATER
PROTECTION BRANCH
05 OCT 19 AM 8:12
6WD-S

Is this the "KVD"
Garcia Well" the
W-24 Well?.

It is the tank

When was the
last time that
the W-25 Well
pumped water
to the tank?.

Method Number		Analysis Date
150.1	pH ----- 8.05	06-30-04
120.1	Specific Conductance 1660 umhos/cm @ 25 Deg.C.	06-30-04
→ D2907-83	Uranium, mg/L ----- 0.195	07-21-04
900.0	Gross Alpha Activity, pci/L ----- 194	07-01-04
	Counting Error, pci/L ----- +/- 18	
900.0.	Gross Beta Activity, pci/L ----- 17	07-01-04
	Counting Error, pci/L ----- +/- 4	
7500-Ra C.	Radium 226, pci/L ----- 0.8	07-19-04
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Moore (pH, Spec. Conductance, Uranium)
Nixon/Moore (Gross Alpha/Beta)
Nixon (Radium 226)

Lab. No. M42-2497

Respectfully Submitted,

CFC
Carl F. Crownover, Pres.

form: S2-4

URI/Kingsville Dome Project
Combined W-24 & W-25 Garcia Hills Domestic Wells Water Quality Data

Sample ID	Uranium (mg/l)	Gross Alpha (pCi/l)	Gross Beta (pCi/l)	Radium 226 (pCi/l)	Specific conductance and PH
12/13/96	0.184	108(+/-)10	45 (+-) 5	0.7 (+-) 0.1	1660 / 8.14
5/23/97	0.220	124 (+-) 11	40 (+-) 5	0.7 (+-) 0.1	1570 / 8.18
8/29/97	0.152	67 (+-) 8	45 (+-) 5	0.5 (+-) 0.1	1620 / 8.18
2/25/98	0.189	88 (+-) 9	32 (+-) 4	0.7 (+-) 0.1	1630 / 8.05
W-24 only 6/18/98	0.152	103 (+-) 10	37 (+-) 5	0.8 (+-) 0.1	1640 / 8.14
W-25 only 6/18/98	0.167	102 (+-) 10	30 (+-) 5	0.9 (+-) 0.1	1630 / 8.20
8/27/98	0.158	94 (+-) 10	36 (+-) 5	0.7 (+-) 0.1	1660 / 8.21
11/25/98	0.209	111 (+-) 10	48 (+-) 5	0.7 (+-) 0.1	1630 / 8.04
3/26/99	0.200	99 (+-) 10	45 (+-) 5	1.2 (+-) 0.1	1620 / 8.15
6/21/99	0.181	96 (+-) 10	49 (+-) 5	0.7 (+-) 0.1	1630 / 8.09
8/24/00	0.151	71 (+-) 8	24 (+-) 4	0.9 (+-) 0.1	1560 / 8.28
9/19/00(Split with TDH)	0.187	Na	Na	0.4 (+-) 0.1	1600 / 8.30
11/6/00	0.168	72 (+-) 7	31 (+-) 5	0.9 (+-) 0.1	Na
2/19/01	0.184	78 (+-) 7	24 (+-) 4	0.7 (+-) 0.1	1570 / 8.15
06/11/01	0.179	72 (+-) 7	38 (+-) 4	0.8 (+-) 0.1	1510 / 8.03
9/13/01	0.160	81 (+-) 8	32 (+-) 4	0.8 (+-) 0.1	1430 / 8.03
12/17/01	0.240	113 (+-) 9	26 (+-) 5	0.9 (+-) 0.1	1610 / 0.1
3/21/02	0.164	89 (+-) 9	33 (+-) 4	0.8 (+-) 0.1	1680 / 8.16
6/26/02	0.141	74 (+-) 8	22 (+-) 4	0.6 (+-) 0.1	1720 / 8.17
9/30/02	0.172	82 (+-) 8	11 (+-) 3	0.8 (+-) 0.1	1660 / 8.13
12/13/02	0.188	126 (+-) 10	28 (+-) 4	0.7 (+-) 0.1	1590 / 8.13

*Compare to WQ data for 1988
provided by Teo Saenz on
10/09/05
JET*

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
June 06, 2006

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD 2nd Qtr. Ground Water
Cumberland Well
5-15-06

Which Cumberland
Well is this?.

Method Number		Analysis Date
150.1	pH ----- 7.72	05-16-06
120.1	Specific Conductance 1560 umhos/cm @ 25 Deg.C.	05-16-06
D2907	Uranium, mg/L ----- 0.012	06-05-06 ←
900.0	*Gross Alpha Activity, pci/L ----- 21	05-18-06
	Counting Error, pci/L ----- +/- 7	
900.0.	*Gross Beta Activity, pci/L ----- 7.9	05-18-06
	Counting Error, pci/L ----- +/- 3.1	
7500-Ra C.	Radium 226, pci/L ----- 0.6	05-30-06
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Nixon & Moore
Calibration: Alpha - Th230 Beta - Cs137

*Note: EPA Method 900.0 is a drinking water screening procedure.
Its application to waters of high total dissolved solids
may result in unacceptably high counting errors due to
limitation on sample size. Recommended max is 500 mg/L.

Alternate method for determining activity may be considered.

Lab. No. M44-1406

Respectfully Submitted,

CF

Carl F. Crownover, Pres.

form: S2-4


JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
June 06, 2006

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD 2nd Qtr. Ground Water
Garcia Well
5-15-06

Garcia Hill
W-24

Method Number		Analysis Date
150.1	pH ----- 7.82	05-16-06
120.1	Specific Conductance 1610 umhos/cm @ 25 Deg.C.	05-16-06
D2907	Uranium, mg/L ----- 0.730	06-05-06 
900.0	*Gross Alpha Activity, pci/L ----- 677	05-18-06
	Counting Error, pci/L ----- +/- 30	
900.0.	*Gross Beta Activity, pci/L ----- 53	05-18-06
	Counting Error, pci/L ----- +/- 5	
7500-Ra C.	Radium 226, pci/L ----- 1.2	05-30-06
	Counting Error, pci/L ----- +/- 0.1	

Analysts: Nixon & Moore
Calibration: Alpha - Th230 Beta - Cs137

*Note: EPA Method 900.0 is a drinking water screening procedure.
Its application to waters of high total dissolved solids
may result in unacceptably high counting errors due to
limitation on sample size. Recommended max is 500 mg/L.

Alternate method for determining activity may be considered.

Lab. No. M44-1407

Respectfully Submitted,



Carl F. Crownover, Pres.

form: S2-4

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
June 06, 2006

URI, INC.
650 S. Edmonds Lane, Suite 108
Lewisville, Texas 75067

Report of Analysis

Identification: KVD 2nd Qtr. Ground Water
Lehman Well
5-15-06

Method Number		Analysis Date
150.1	pH ----- 8.13	05-16-06
120.1	Specific Conductance 2060 umhos/cm @ 25 Deg.C.	05-16-06
D2907	Uranium, mg/L ----- 0.002	06-05-06 ←
900.0	*Gross Alpha Activity, pci/L ----- 9.5 Counting Error, pci/L ----- +/- 6.3	05-18-06
900.0.	*Gross Beta Activity, pci/L ----- 5.4 Counting Error, pci/L ----- +/- 3.5	05-18-06
7500-Ra C.	Radium 226, pci/L ----- 0.2 Counting Error, pci/L ----- +/- 0.1	05-30-06

Analysts: Nixon & Moore
Calibration: Alpha - Th230 Beta - Cs137

*Note: EPA Method 900.0 is a drinking water screening procedure.
Its application to waters of high total dissolved solids
may result in unacceptably high counting errors due to
limitation on sample size. Recommended max is 500 mg/L.

Alternate method for determining activity may be considered.

Lab. No. M44-1408

Respectfully Submitted,



Carl F. Crownover, Pres.

form: S2-4

Lehman Well
(Location?,
South Block 41?,
Schematic?).

Whose Report is this and
when was it completed?

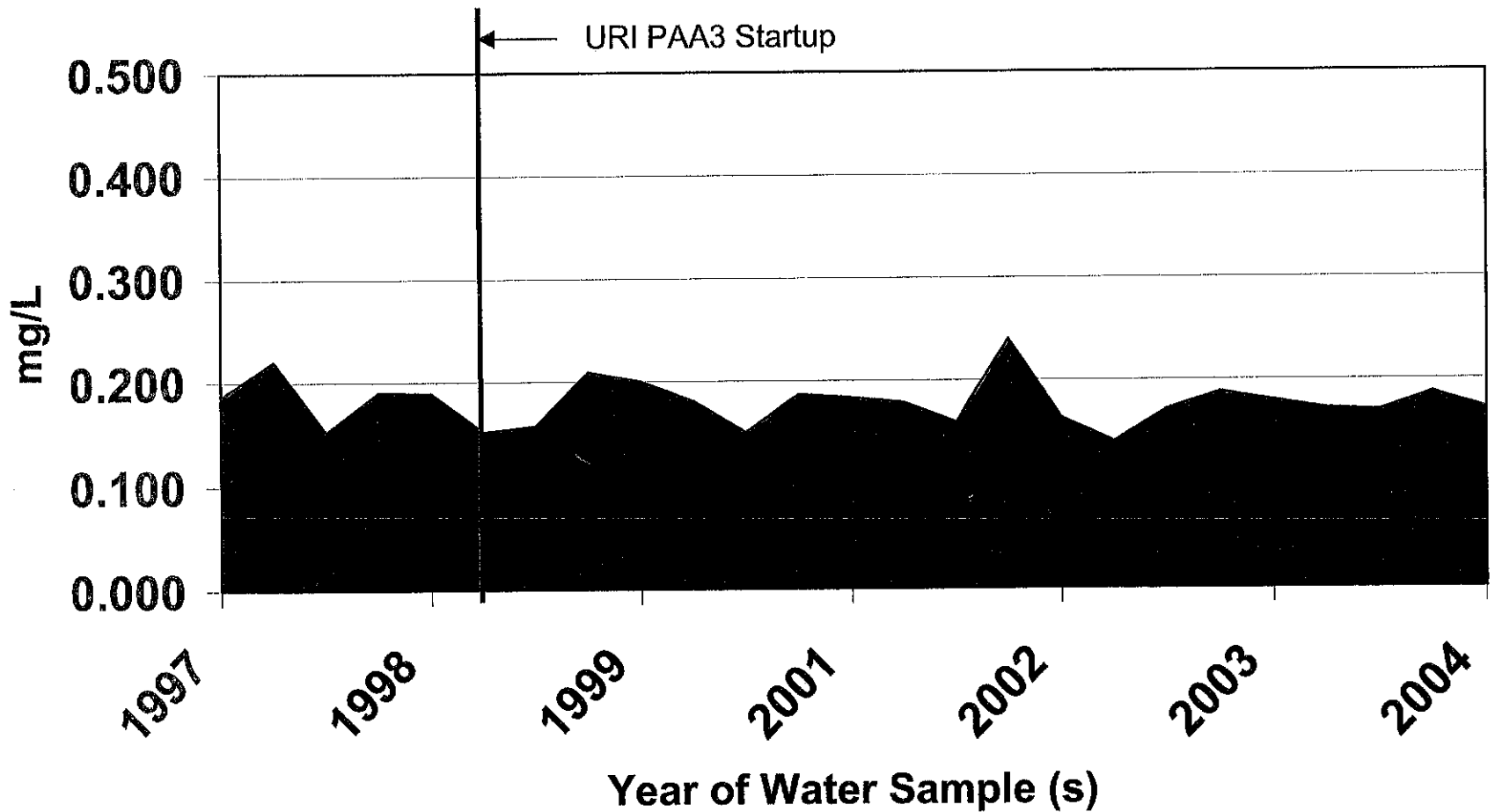
5.0 URI, INC. - KVD
Groundwater Sampling
SUMMARY - Garcia Well #24/25

*Environmental
Report
Rev. 2.0*

Year	DATE	Quarter	pH	umhos/cm COND.	PCi/L G. ALPHA Reading	+/-	PCi/L G. BETA Reading	+/-	Mg/L U	PCi/L RADIUM Reading	+/-
Baseline											
1997	4/4/1997	1	8.18	1620	104.0	10.0	29.0	5.0	0.186	0.4	0.1
1997	5/23/1997	2	8.18	1570	124.0	11.0	50.0	5.0	0.220	0.9	0.1
1997	8/29/1997	3	8.18	1620	67.0	8.0	45.0	5.0	0.152	0.5	0.1
1997	12/9/1997	4	8.03	1650	121.0	11.0	57.0	6.0	0.190	0.8	0.1
1998	2/25/1998	1	8.05	1630	88.0	9.0	32.0	4.0	0.189	0.7	0.1
1998	6/18/1998	2	8.14	1640	103.0	10.0	37.0	5.0	0.152	0.8	0.1
1998	8/27/1998	3	8.21	1660	94.0	10.0	36.0	5.0	0.158	0.7	0.1
1998	11/25/1998	4	8.04	1630	111.0	10.0	48.0	5.0	0.209	0.7	0.1
1999	3/26/1999	1	8.15	1620	99.0	10.0	42.0	5.0	0.200	1.2	0.1
1999	6/21/1999	2	8.09	1630	96.0	10.0	49.0	2.0	0.181	0.7	0.1
2000	8/24/2000	3	8.28	1560	71.0	8.0	24.0	4.0	0.151	0.9	0.1
2000	9/19/2000	3	8.30	1600	72.0	7.0	31.0	5.0	0.187	0.4	0.1
2001	2/19/2001	1	8.15	1570	78	7	27	4	0.184	0.7	0.1
2001	6/11/2001	2	8.03	1510	72	7	38	4	0.179	0.8	0.1
2001	9/13/2001	3	8.03	1430	81	8	32	4	0.160	0.8	0.1
2001	12/17/2001	4	8.15	1610	113	9	26	5	0.240	0.9	0.1
2002	3/21/2002	1	8.16	1680	89	9	33	4	0.164	0.8	0.1
2002	6/26/2002	2	8.17	1720	74	8	22	4	0.141	0.6	0.1
2002	9/30/2002	3	8.13	1660	82	8	11	3	0.172	0.8	0.1
2002	12/13/2002	4	8.13	1590	126	10	28	4	0.188	0.7	0.1
2003	3/11/2003	1	8.27	1760	134	11	29	4	0.18	0.7	0.1
2003	6/23/2003	2	8.11	1600	78	8	19	4	0.172	0.7	0.1
2003	9/26/2003	3	8.2	1710	135	14	21	4	0.17	0.6	0.1
2003	12/12/2003	4	8.05	1630	118	13	22	4	0.187	0.8	0.1
2004	3/31/2004	1	8.05	1670	136	13	16	4	0.172	0.9	0.1

GARCIA WELL 24/25

Historical Uranium Concentration



From "Environmental Report, Rev. 2.0" - Author?, Date?.

How did this report account for the Lab results seen in the previous slides?, and if it didn't, Why? 47

Radiation Branch

Urgent Processing Authorized By:

☒ Routine ☐ Urgent ☐ Priority (half-life)
Licensee/Facility Name: DAILicense No: 603653Site No: 000Sample No. 1Station No: 12/ASample Description: Garcia well water AgricultureSample Code: U-238Reason for Sampling: C-2056

Sample Location: Garcia well was used
for cattle 142617060 3035748

Sample Collection Date: 4/23/07 Time: 1800Sample Collector Name: 2CarterRadiation Survey of Sample: < 5.0 ☐ mR/hr☒ uR/hr☐ cpm

The following certify, by their signature(s), that
they were continuously in control of this sample
until transferred to the next indicated person:

Transfer from Mike To Carter Date 2/27/07 Time 1200
Carol Teitel Lab 3/1/07 0800

Condition of Seals:

☒ Satisfactory ☐ RECEIVED
Wet weight: APR 26 2007Ash Weight: INSPECTION UNITNotes: INSPECTION UNIT

I certify that this sample was continuously in my
custody from the time and date of receipt listed
hereon until the completion of laboratory analysis.

Signature: Virginia KammundDate: Approved 4-24-07 Reported APR 26 2007

Copies:

☒ License file 603653 ☐ Facility file
☒ Incident/complaint file ☐ Other
☐ Collector
☐ Routing:

Environmental Sciences Branch

☐ Chemical Analysis Also Performed

Suspected Radionuclides:

Ra + Uranium

Check the required analyses:

Radionuclide	Analyses	Units
<input checked="" type="radio"/> Gamma Scan: <u>3-14-07</u>		
<u>K-40</u>	<u>$1.7 \times 10^{-8} \pm 8 \times 10^{-9}$</u>	<u>uCi/ml</u>
<u>U-235</u>	<u>$1.3 \times 10^{-8} \pm 1 \times 10^{-9}$</u>	<u>uCi/</u>
<u>U-238</u>	<u>$1.2 \times 10^{-7} \pm 1.7 \times 10^{-8}$</u>	<u>uCi/</u>
<u>Ra-226</u>	<u>$< 4.1 \times 10^{-8}$</u>	<u>uCi/</u>
		<u>uCi/</u>
		<u>uCi/</u>
COMPLAINT <u>2056</u>		<u>uCi/</u>
ROUTE		<u>uCi/</u>
REGION <u>11</u>		<u>uCi/</u>
AF HW JO <u>2H</u>		<u>uCi/</u>
INCIDENT		<u>uCi/</u>
		<u>uCi/</u>
		<u>uCi/</u>
		<u>uCi/</u>

Beta Analysis:

☐ Gross Beta uCi/
☐ Tritium uCi/
☐ uCi/

Alpha Analysis:

☒ Gross Alpha $5.89 \times 10^{-7} \pm 2.2 \times 10^{-8}$ uCi/ml
☒ Radium-226 $1.3 \times 10^{-7} \pm 3 \times 10^{-10}$ uCi/ml
☒ Total Uranium $4.93 \times 10^{-7} \pm 1.3 \times 10^{-8}$ uCi/ml

☒ Alpha Spectroscopy:

U-234 $2.34 \times 10^{-7} \pm 7 \times 10^{-9}$ uCi/ml
U-235 $1.1 \times 10^{-8} \pm 2 \times 10^{-9}$ uCi/ml
U-238 $2.57 \times 10^{-7} \pm 8 \times 10^{-9}$ uCi/ml
uCi/
uCi/

☐ Regulatory limits WERE exceeded.
Regulatory limits WERE NOT exceeded.
Signature _____
Date _____

Disposal: ☐ Non-Radioactive

☐ Rad Waste ☐ Decay
☐ To Licensee ☐ Other

U concentrations
presented in
Unconventional Units:

$\mu\text{Ci/ml}$

Need to convert to
more customary

mg/L or $\mu\text{g/L}$

for valid comparisons.

Need to research
appropriate Units
Conversion Factor.

Tel. (512) 458-7587
FAX (512) 458-7757

Date Collected: 07/14/2008
Date Received: 07/15/2008

There is no consistency in the way Garcia Wells are identified.

Approval Signature:
Date Reported:

J. H. Ballinger
AUG 22 2008 *mf*

Notes:

Date Approved: _____

8/21/08

Rev. 1 4-1-97

QUESTIONS ON:

Schedule of Operations
Operating Details



EPA, Region 6
Dallas, Texas

URI, INC.

(A Subsidiary of Uranium Resources, Inc.)

Kingsville Dome Project
640 East FM 1118
Kingsville, Texas 78363
Telephone: (361) 595-5731
Fax: (361) 595-0403

405 State Highway 121 Bypass
Building A, Suite 110
Lewisville, Texas 75067
Telephone: (972) 219-3330
Fax: (972) 219-3311

Rosita Project
3021 County Road 333
San Diego, Texas 78384
Telephone: (361) 279 - 3307
Fax: (361) 279 - 2260

November 28, 2011

Dr. Gary L. Smith, Section Manager
Uranium and Technical Assessment Section
Radioactive Materials Division
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

RE: Radioactive Material License L03653
Year 2011 Decommissioning Cost Estimate Adjustment

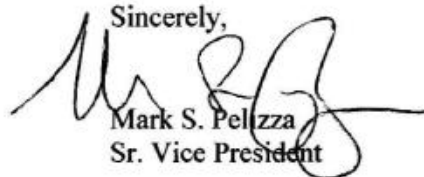
Dear Dr. Smith:

Site Number 001 Rosita.

Groundwater restoration was completed all three production areas at the Rosita site by 2008. On October 21, 2008, notice was given to the TCEQ that restoration was complete in production areas 1 and 2 and that stabilization sampling was to begin. URI has completed stability of groundwater restoration in production areas 1 and 2 as required by TCEQ regulations. On October 12, 2011 TCEQ approved the amended restoration tables for Production Area's 1 & 2 making the way for final closure of these production areas.

Please feel free to contact me with questions pertaining to this matter.

Sincerely,



Mark S. Pelizza
Sr. Vice President

Cc: Mark Stoebner - TCEQ
Thomas H. Ehrlich - URI
Rick Van Horn - URI

Letter documents TCEQ's approval of amendment to Restoration Tables in order to make possible the final closure of production areas by operator.


Is there similar correspondence available for KVD?.

Re: URI's KVD's PA3 New Wellfields - Lotus Notes

File Edit View Create Actions Window Help

Workspace Jose Torres - Inbox Re: A Question Re: URI's KVD's PA3 New Wellfi...

New Reply Reply to All Forward More Records

 **Re: URI's KVD's PA3 New Wellfields**
Muhammadali Abbaszadeh to: Jose Torres
Cc: Philip Dellinger, Ray Leissner, "Frank Espino" 03/12/2009 08:54 AM
[Show Details](#)

Mr. Torres,

Below is the production start and end dates for the well fields at Kingsville Dome site.

WF 9-----6/98-6/99
WF 10-----8/98-6/99
WF 11-----4/29/2006-9/11/2007
WF 12-----8/7/2006-9/11/2007
WF 13-----1/30/2007-12/7/2007
WF 14-----7/18/2007-6/18/2008
WF 15A-----1/18/2008-10/12/2008
WF 15B-----not producing yet
WF 16A-----12/22/2007-still producing
WF 16B-----7/9/2008-still producing
WF 17A-----4/22/2008-still producing
WF 17B-----10/8/2008-still producing

>>> <Torres.Jose@epamail.epa.gov> 3/10/2009 2:08 PM >>>
Mr. Muhammadali:

Thank you very much for the clarification. The fact that only

You have new mail on R6MAIL/R6/USEPA/US

start Re: URI's KVD's PA... 1-2-3 - [R:\yr09\U... Microsoft Photo Edi... R:\yr09\URCase 090309EnvChemist... 10:35 AM

Schedule of activities at Production Area No. 3 (PA-3) at the Kingsville Dome (KVD) U mine.

**{In Archive} Re: A Request Re URI****Muhammadali Abbaszadeh** to: Jose Torres

Cc: Philip Dellinger, Ray Leissner, Ben Knappe, Dawn Burton, Don Redmond, Katherine Nelson, Salal Tahiri

02/14/2007 03:43 PM

[Hide Details](#)[Sort List...](#)

From: Muhammadali Abbaszadeh <MABBASZA@tceq.state.tx.us>

To: Jose Torres/R6/USEPA/US@EPA

Cc: Philip Dellinger/R6/USEPA/US@EPA, Ray Leissner/R6/USEPA/US@EPA, Ben Knappe <BKNAPE@tceq.state.tx.us>, Dawn Burton <DBurton@tceq.state.tx.us>, Don Redmond <DREDMOND@tceq.state.tx.us>, Katherine Nelson <KNELSON@tceq.state.tx.us>, Salal Tahiri <STahiri@tceq.state.tx.us>

History: This message has been replied to.

Archive: This message is being viewed in an archive.

	Muhammadali Abb Re: A Request Re URI	02/14/2007 03:43 PM	8K	
	Jose Torres	<i>Thank you Mr. Muhammadali for your prompt reply and for the information on the bleeding operations h</i>		
	Philip Dellinger	<i>Re: A Request Re URI</i>		
	Ray Leissner	<i>Re: A Request Re URI</i>		

I am not sure what reports she is referring to. She may be referring to the investigation conducted in January 2004. The report does not mention any excursion and I am not aware of any excursion at PA3. When URI had financial difficulties, the restoration activities (maintaining a bleed) at Kingsville Dome facility ceased from April 4, 2003 until January 5, 2004. Prior to this time, a bleed was maintained in well field 9 at PA3. Let me know if I can be of any further assistance.

Ms. Cumberland has requested a meeting prior to my next investigation of Kingsville Dome site to discuss her concern and several others. I have not scheduled an investigation yet.

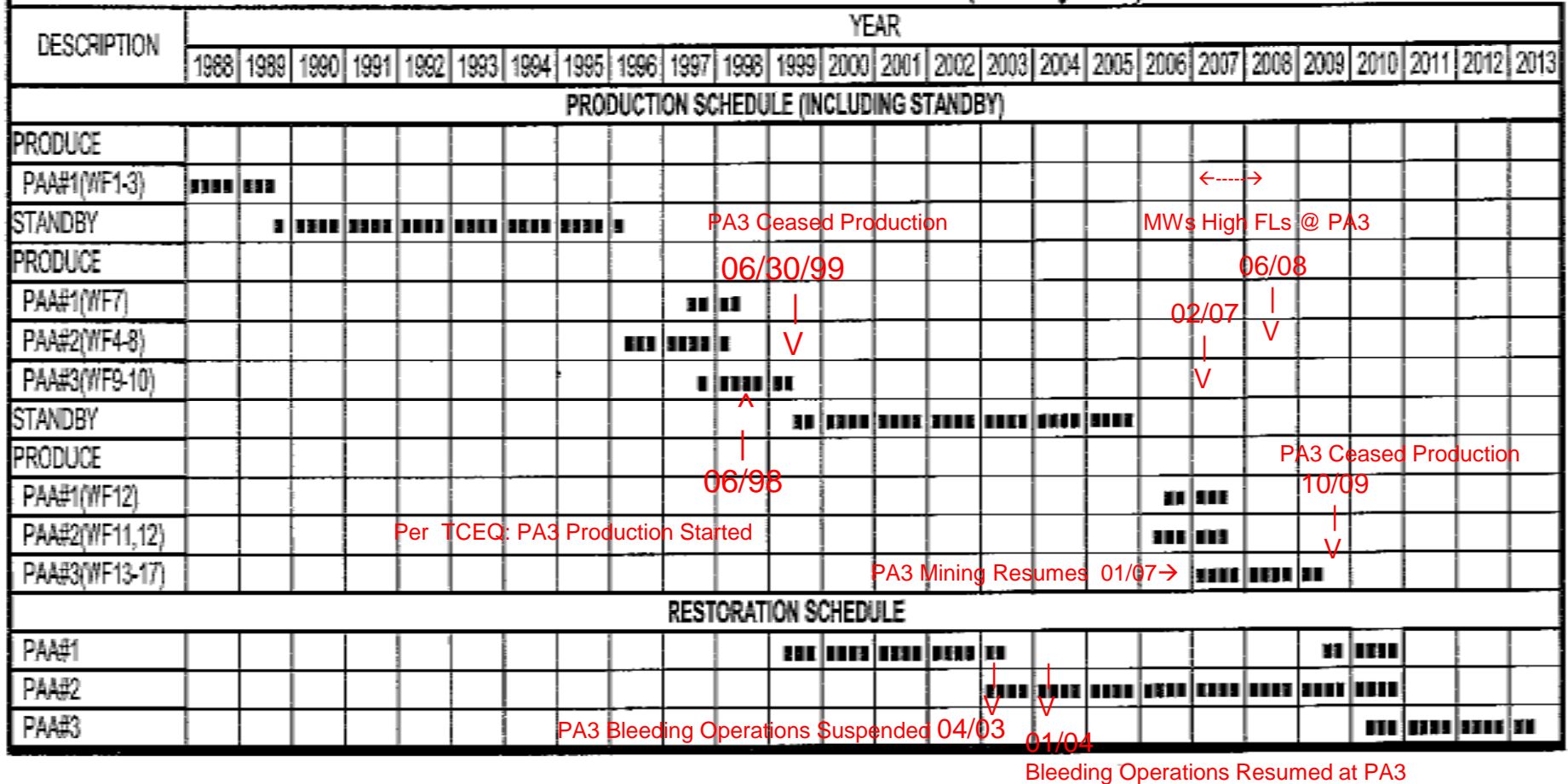
>>> <Torres.Jose@epamail.epa.gov> 2/13/2007 3:22 PM >>>

Hello Mr. Muhammadali:

Per TCEQ, bleeding activities at PA3 were suspended between April 4, 2003 and January 5, 2004

Mine Operations Schedule

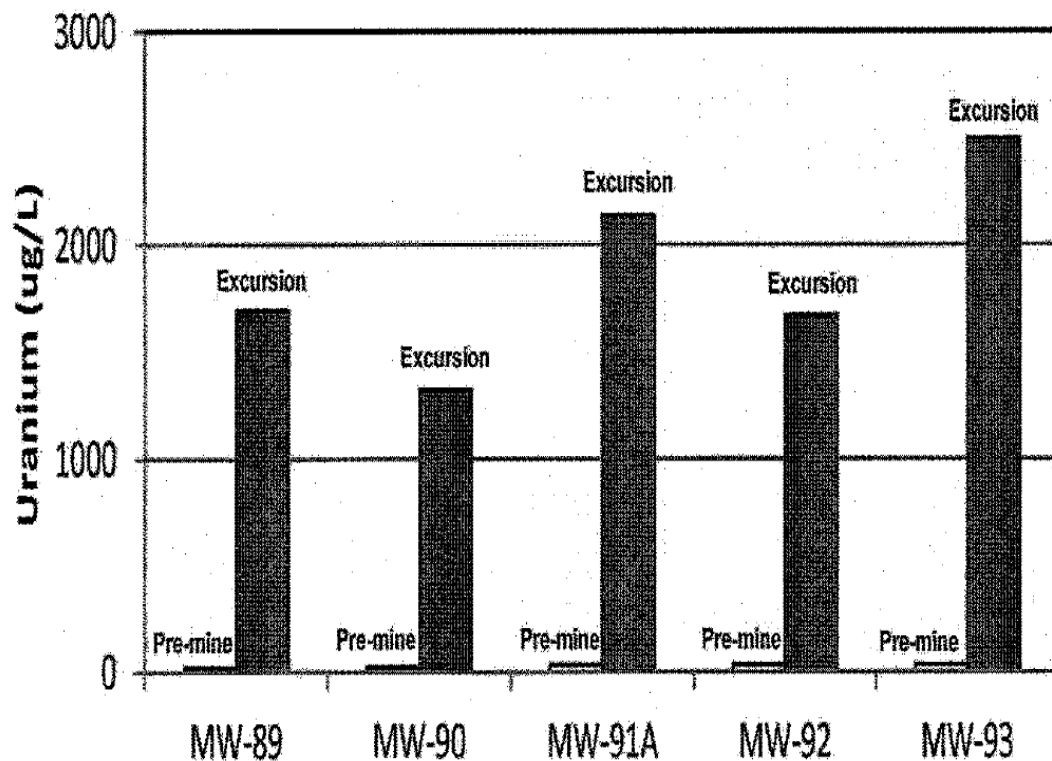
KINGSVILLE DOME - MINE PLAN ESTIMATE (January 2012)



From 2011 Class III Annual Report, January, 2012.

Is it fair to say that the operator may eventually produce from one additional Well Field (15B) in PA-3, not discussed in above Table?.

Uranium Excursions in Northern Portion of PAA-3



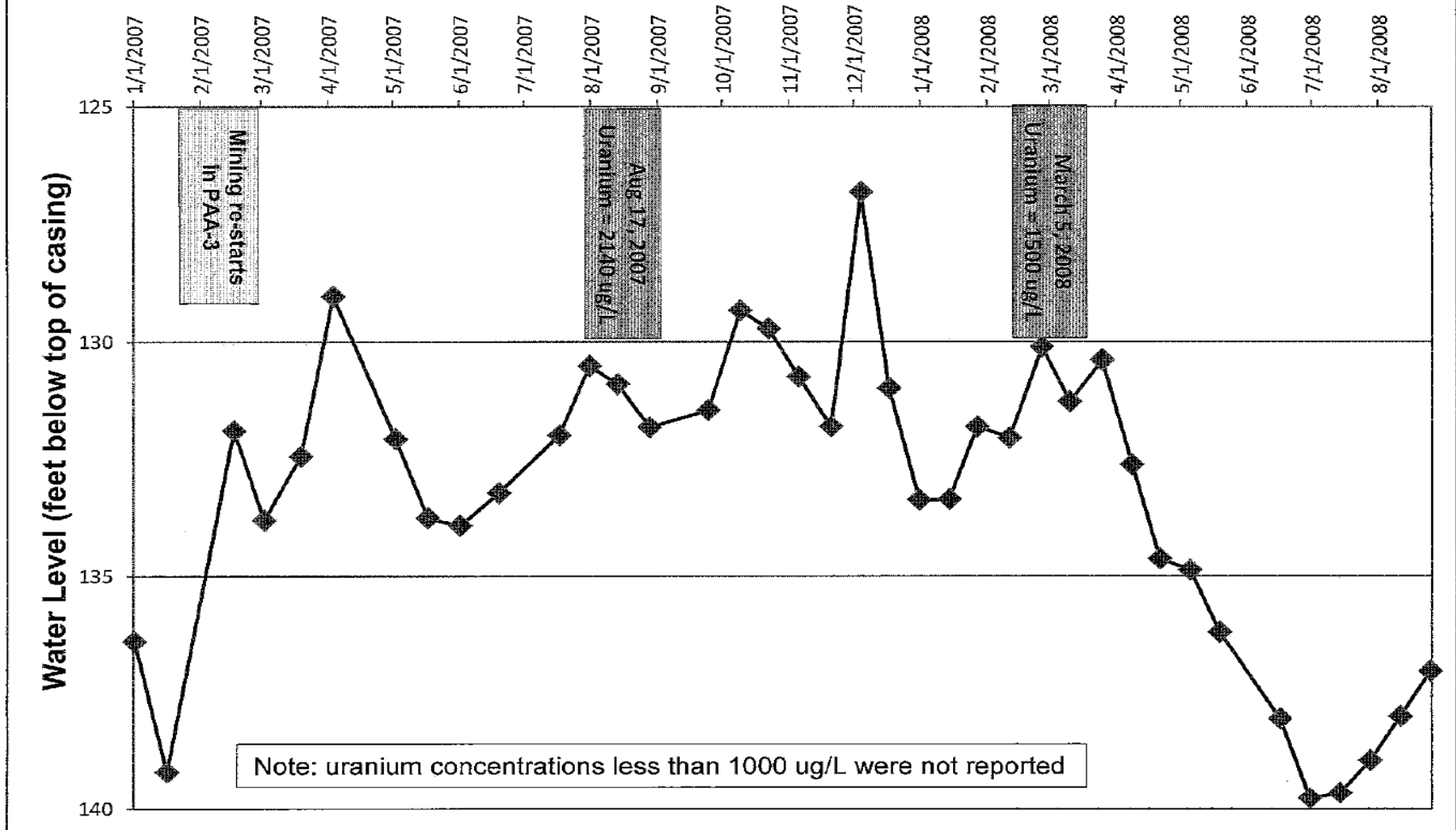
Data sources: application for PAA-3 (URI, 1997/2002); and 2008 2nd Quarter Monitor Well Report (URI, 2008). Uranium concentrations less than 1000 ug/L are usually not reported by URI.

Note: Excursions shown occurred in 2007. Not reported to TCEQ because concentrations were less than excursion value defined in permit: 6540 ug/L.

From Rice's Revised
Report (05/07/12):

Excursions NOT
Reported unless U
Concentrations exceed
6540 $\mu\text{g/L}$!!!.

Water Levels at PAA-3 MW-91/91A January 2007 - August 2008



Data sources: Quarterly Monitor Well Reports submitted by URI to TCEQ, 2007 and 2008

Need a Table of fluid level readings to back up above graph. For assessment of Flow Pattern in reservoir and Flow Pattern's corresponding Fluid Flow Velocity, need fluid level readings from as many Monitoring Wells as possible.

Need to review similar Phase Diagrams for Uranium in order to analyze Precipitation Conditions in Aquifer. Evaluate claims of U immobility using Phase Diagrams.

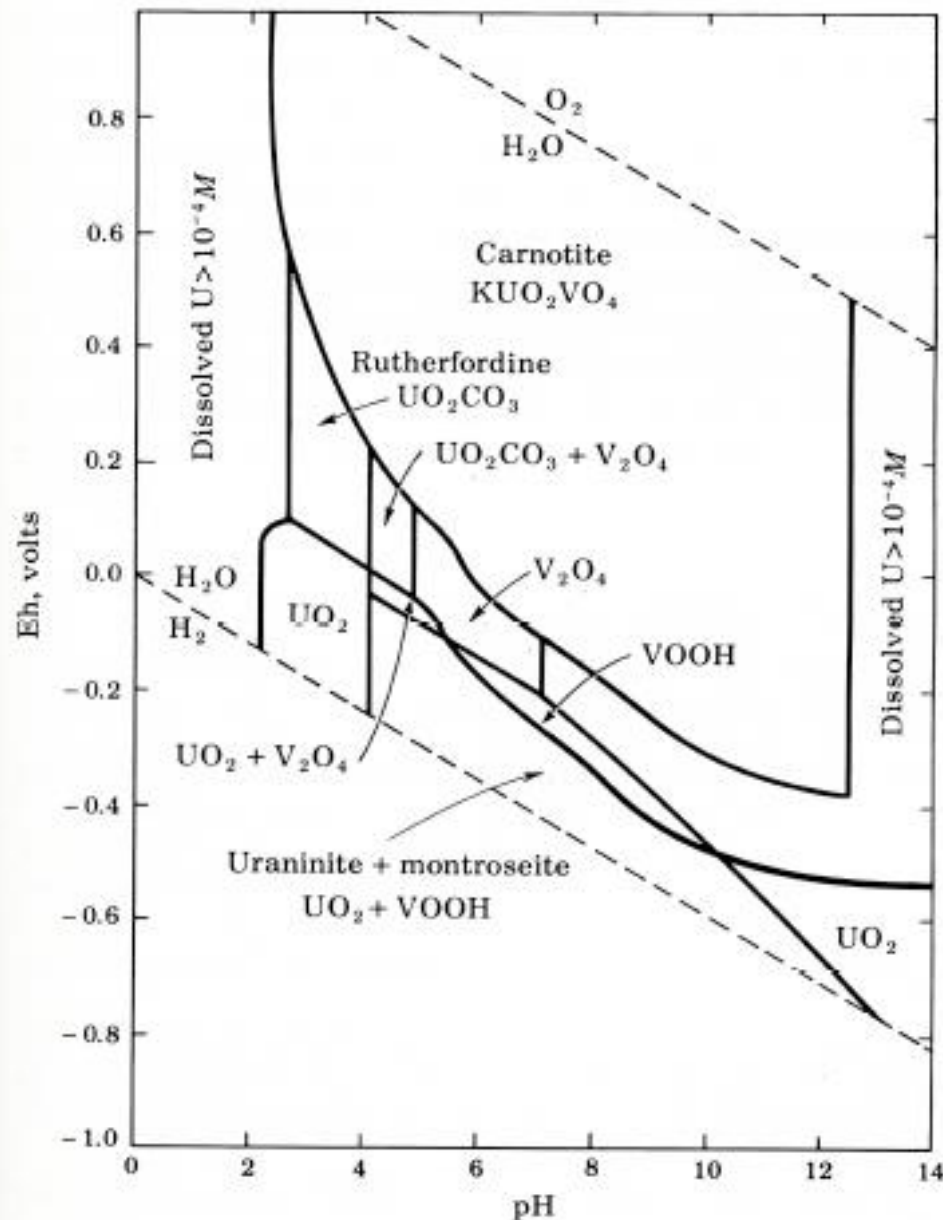


Figure 18-2 Eh-pH diagram for uranium and vanadium compounds at 25°C and 1 atm total pressure. Total dissolved V = $10^{-3} M$, carbonate = $10^{-1} M$. (Source: Garrels and Christ, 1965, page 393.)

Are there enough Production Area and adjacent area reliable Ph Data to effectively use this graph to Evaluate U immobility at a given point in the reservoir?.

Are there case studies illustrating the successful use of this graph?.

Has anyone attempted to identify which Catalysts affecting U solubility prevail within the reservoir in the KVD area?.

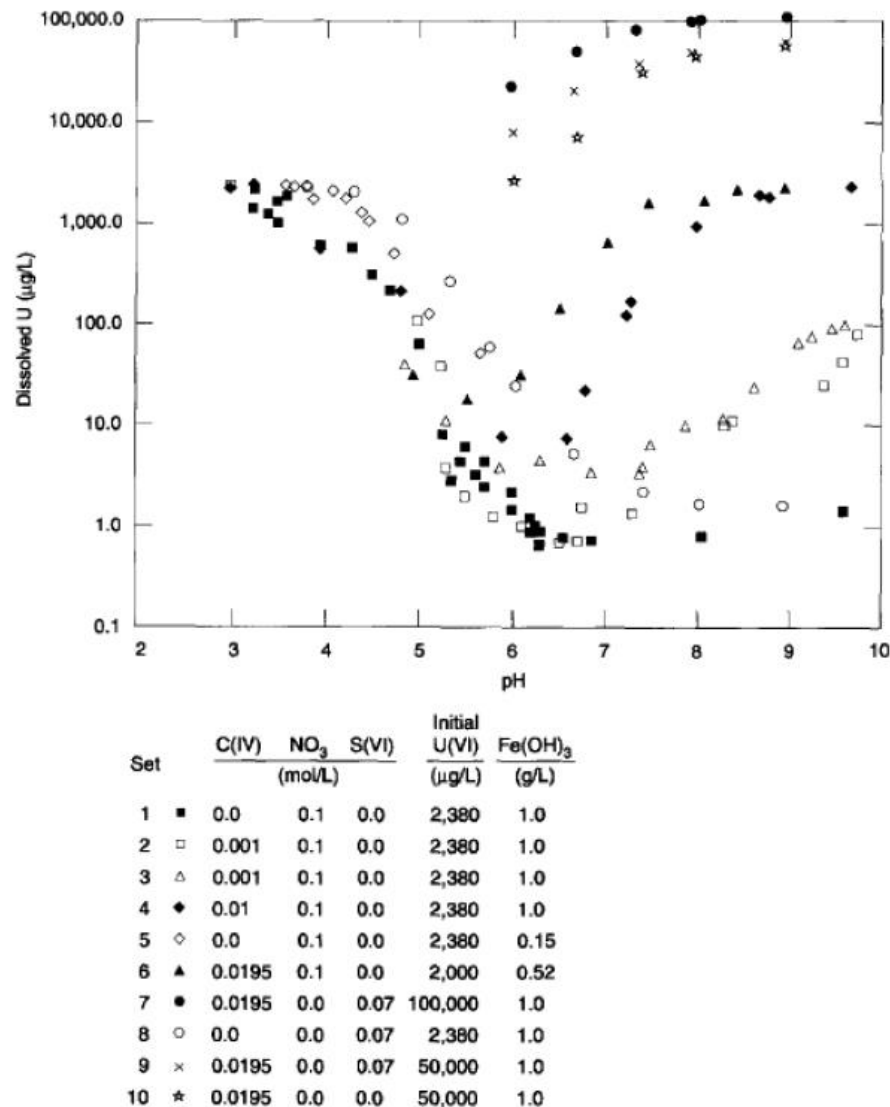


Figure 2.1. Dissolved uranium as a function of pH, carbonate, nitrate and sulfate (Morrison et al. 1995)